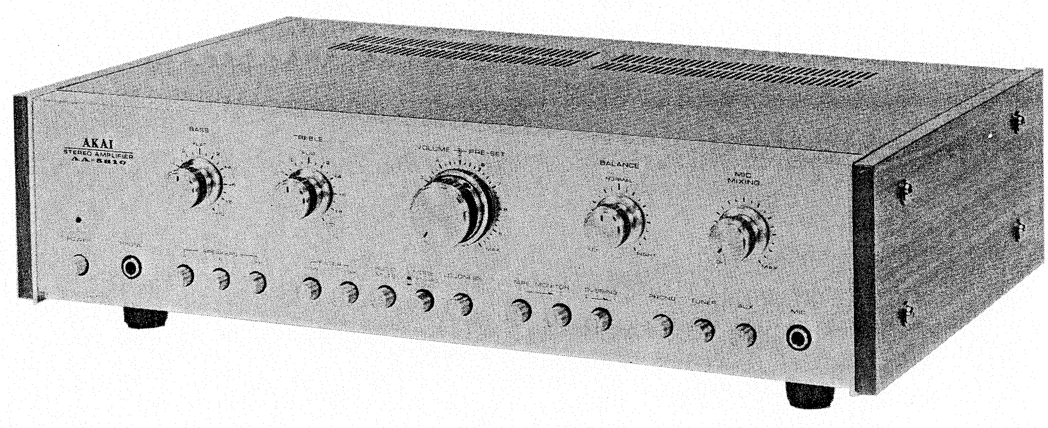
AA-5810
AA-5510

SERVICE MANUAL
PARTS LIST

PRIDE IN QUALITY

AKAI STEREO AMPLIFIER
MODEL AA-5810
ALSO APPLICABLE TO MODEL AA-5510



AA-5810

AA-5510

STEREO AMPLIFIER

MODEL AA-5810

ALSO APPLICABLE TO MODEL AA-5510

SECTION 1 SERVICE MANUAL 3
SECTION 2 PARTS LIST 17
SECTION 3 PARTS LIST 27
SECTION 4 SCHEMATIC DIAGRAM 36

SECTION 1

SERVICE MANUAL

TABLE OF CONTENTS

I. SPECIFICATIONS 4

II. DISMANTLING OF UNIT 6

III. ADJUSTMENTS 7

- 1. NECESSARY MEASURING INSTRUMENTS 7
- 2. CLASSIFICATION OF VARIOUS P.C. BOARDS 7
- 3. MAIN AMPLIFIER ADJUSTMENTS 8

IV. COMPOSITE VIEWS OF COMPONENTS 9

I. SPECIFICATIONS

§ MODEL AA-5810

An asterisk next to a figure indicates the minimum guaranteed performance.

RATED OUTPUT		50 W x 2/8 ohm (both channels driven)	
HARMONIC DISTORTION		Less than 0.3% 20 Hz/8 ohm at rated output	
		Less than 0.3% 20 kHz/8 ohm at rated output	
		0.15% 1 kHz/8 ohm at rated output	
POWER BAND WIDTH (IHF)		15 to 35,000 Hz at 8 ohm	
FREQUENCY RESPONSE	PHONO	RIAA ±1.0 dB	
		*13.11 ±1.0 dB at 100 Hz	
		*−13.75 ±1.0 dB at 10 kHz	
	AUX	20 to 50,000 Hz ±1.0 dB	
INPUT SENSITIVITY	PHONO	2.5 mV (−50 dBm ±1.5 dB)	
	MIC	2.5 mV (−50 dBm ±1.5 dB)	
	TUNER	140 mV (−15 dBm ±1.5 dB)	
	AUX	140 mV (−15 dBm ±1.5 dB)	
	TAPE	140 mV (−15 dBm ±1.5 dB)	
INPUT IMPEDANCE	PHONO	50 kohm	
	MIC	50 kohm	
	TUNER	60 kohm	
	AUX	60 kohm	
	TAPE	60 kohm	
SIGNAL TO NOISE RATIO	PHONO	Better than −35 dBm (input shorted)	
	MIC	Better than −35 dBm (input shorted) Mic. Vol. max., Vol. min.	
	TUNER	Better than −45 dBm (input open)	
	AUX	Better than −45 dBm (input open)	
	TAPE	Better than −45 dBm (input open)	
RESIDUAL NOISE		Better than −50 dBm Vol. min.	
TONE CONTROL	BASS	10 ±1.5 dB, −10 ±1.5 dB/100 Hz	
	TREBLE	10 ±1.5 dB, −10 ±1.5 dB/10 kHz	
LOUDNESS CONTROL		7 ±1.0 dB/100 Hz	
		4.5 ±1.0 dB/10 kHz	
		−30 dB to rated output	
FILTER	LOW	−10 ±1 dB/50 Hz	
	HIGH	−10 ±1 dB/10 kHz	
AUDIO MUTE		−20 dBm ±2 dB	
CROSS TALK		Better than 50 dB at 1 kHz	
L–R DEVIATION		Within 1 dB (Volume Control at center position)	
RECORDING OUTPUT	PIN	140 mV (−15 ±1.5 dB)	
	DIN	30 mV (−29.5 ±1.5 dB)	
		(at standard PHONO input)	
PROTECTION CIRCUIT		Operates at shorting load	
TRANSISTOR		2SA640(I)(L)(M)(P)(Q)(R) 10	2SC1313(G)(H) 4
		2SA641(L)(M) 1	2SC1384(Q)(R) 1
		2SA814(O)(Y) 2	2SC1624(O)(Y) 2
		2SB557(O)(Y) 2	2SC1628(O)(Y) 3
		2SC945(Q)(R) 4	2SD234(O)(Y) 1
		2SC983(O)(Y) 2	2SD427(Q)(Y) 2
		2SC1000(BL)(GR)..... 10	
DIODE		10D1 1	HIFI-SPECIAL 400V... 4
		10D2 7	1N4003 5
ZENER DIODE		WZ130 1	WZ240 1
VARISTOR		STV-4H	
POWER SOURCE		100 to 240 V A.C. 50/60 Hz	
POWER CONSUMPTION		250 W	
DIMENSIONS		450(W) x 115(H) x 290(D) mm (17.7" x 4.5" x 11.4")	
WEIGHT		10.2 kg. (22.4 lbs.)	

NOTE: Specifications subject to change without notice.

§ MODEL AA-5510

An asterisk next to a figure indicates the minimum guaranteed performance.

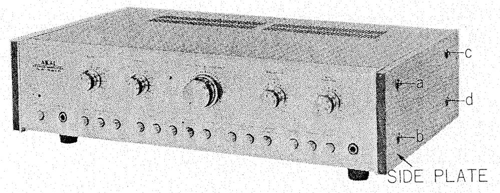
RATED OUTPUT		30 W x 2/8 ohm (both channels driven)	
HARMONIC DISTORTION		0.5% 1 kHz/8 ohm at rated output	
POWER BAND WIDTH		10 to 60,000 Hz at 8 ohm	
FREQUENCY RESPONSE	PHONO	RIAA ±1.0 dB *13.11 ±1.0 dB at 100 Hz *−13.75 ±1.0 dB at 10 kHz	
	AUX	20 to 50,000 Hz ±1.0 dB	
INPUT SENSITIVITY	PHONO	3 mV (−48 dBm ±1.5 dB)	
	MIC	2.5 mV (−50 dBm ±1.5 dB)	
	TUNER	150 mV (−14.3 dBm ±1.5 dB)	
	AUX	150 mV (−14.3 dBm ±1.5 dB)	
	TAPE	150 mV (−14.3 dBm ±1.5 dB)	
INPUT IMPEDANCE	PHONO	50 kohm	
	MIC	50 kohm	
	TUNER	70 kohm	
	AUX	70 kohm	
	TAPE	70 kohm	
SIGNAL TO NOISE RATIO	PHONO	Better than −40 dBm (input shorted)	
	MIC	Better than −40 dBm (input shorted) Mic. Vol. max., Vol. min.	
	TUNER	Better than −50 dBm (input open)	
	AUX	Better than −50 dBm (input open)	
	TAPE	Better than −50 dBm (input open)	
RESIDUAL NOISE		Better than −55 dBm Vol. min.	
TONE CONTROL	BASS	10 ±1.5 dB, −10 ±1.5 dB/100 Hz	
	TREBLE	10 ±1.5 dB, −10 ±1.5 dB/10 kHz	
LOUDNESS CONTROL		8 ±1.5 dB/100 Hz 5.5 ±1.5 dB/10 kHz −30 dB at rated output	
FILTER	LOW	−10 ±1.5 dB/50 Hz	
	HIGH	−10 ±1.5 dB/10 kHz	
AUDIO MUTE		−20 dBm ±1.5 dB	
CROSS TALK		Better than 50 dB at 1 kHz	
L−R DEVIATION		Within 2 dB (Volume Control at center position)	
RECORDING OUTPUT	PIN	150 mV (−14.3 dBm ±2 dB)	
	DIN	30 mV (−28.2 dBm ±2 dB) (at standard PHONO input)	
TRANSISTOR		2SA640(L)(M)......... 2	2SC1312(G)(F)........ 2
		2SA706-3(1)(2)........ 2	2SC1312R(F)(G)....... 8
		2SC1111(O)(Y)........ 4	2SC1313(F)(G)........ 6
		2SC1124(1)(2) 4	2SD313(D)(E)......... 1
DIODE		SR3AM4 4	
VARISTOR		STV-3H 2	
POWER SOURCE		100 to 240 V A.C. 50/60 Hz	
POWER CONSUMPTION		200 W	
DIMENSIONS		450(W) x 115(H) x 290(D) mm (17.8" x 4.5" x 11.4")	
WEIGHT		9.3 kg. (20.5 lbs.)	

Note: Specifications subject to change without notice.

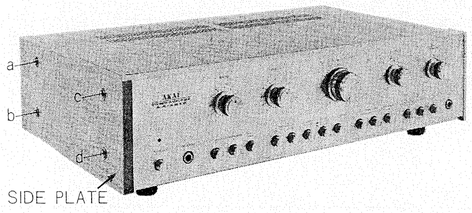
II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassemble in reverse order.

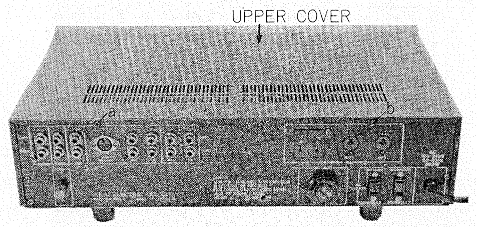
1


c
a
d
b
SIDE PLATE

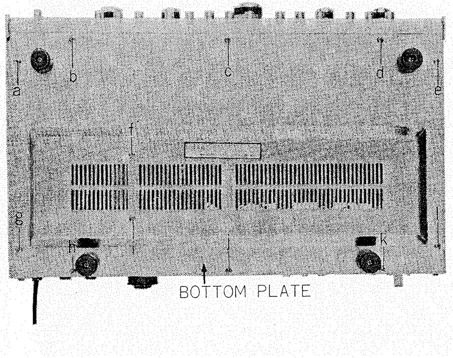
2.


a
c
b
d
SIDE PLATE

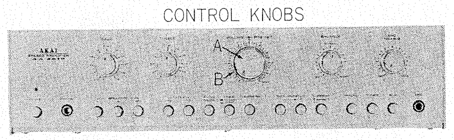
3


UPPER COVER
a
b

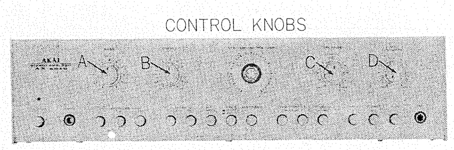
4


a
b
c
d
e
f
g
h
k
BOTTOM PLATE

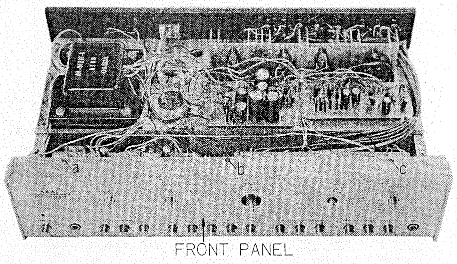
5


CONTROL KNOBS
A
B

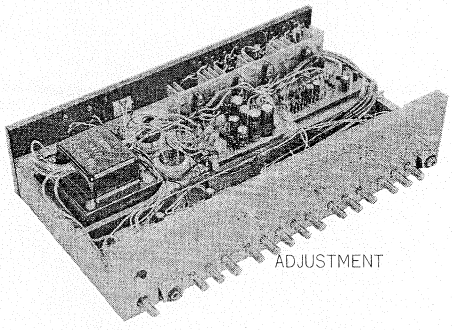
6


CONTROL KNOBS
A
B
C
D

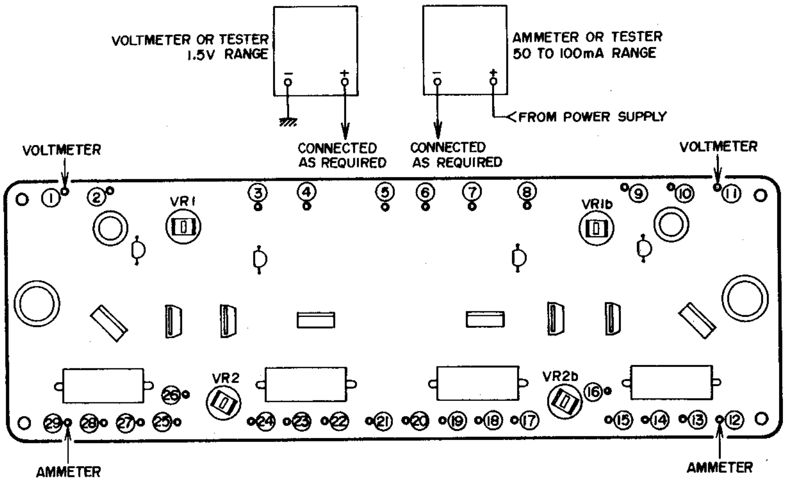
7


a
b
c
FRONT PANEL

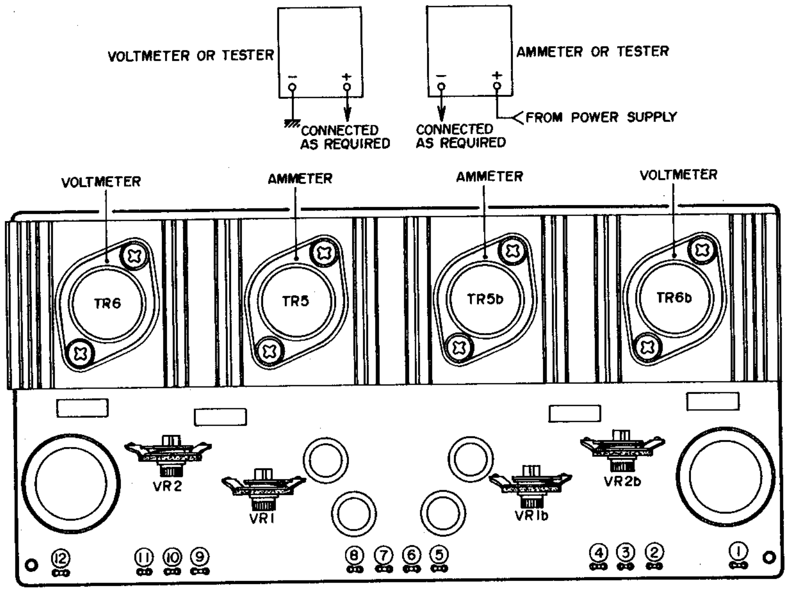
8


ADJUSTMENT

III. ADJUSTMENTS


VOLTMETER OR TESTER
1.5V RANGE
AMMETER OR TESTER
50 TO 100mA RANGE
FROM POWER SUPPLY
CONNECTED AS REQUIRED
CONNECTED AS REQUIRED
VOLTMETER
VOLTMETER
VR1
VR1b
VR2
VR2b
AMMETER
AMMETER

MAIN AMP. P.C. BOARD 94-5013


VOLTMETER OR TESTER
AMMETER OR TESTER
FROM POWER SUPPLY
CONNECTED AS REQUIRED
CONNECTED AS REQUIRED
VOLTMETER
AMMETER
AMMETER
VOLTMETER
TR6
TR5
TR5b
TR6b
VR2
VR1
VR1b
VR2b

MAIN AMP. P.C. BOARD 92-5005 5ED

1. NECESSARY MEASURING INSTRUMENTS

Ammeter or Tester	Yokogawa 2011
Voltmeter or Tester	Kikusui 107A
Oscilloscope	Matsushita VP508A

2. CLASSIFICATION OF VARIOUS P.C. BOARDS

P.C. BOARD	MODEL AA-5810	MODEL AA-5510
TONE CONTROL P.C. BOARD	A5-5219	A5-5219
POWER SUPPLY P.C. BOARD	A5-5309	A5-5216
SPEAKER SW. P.C. BOARD	A5-5310	A5-5215
EQUALIZER SW. P.C. BOARD	A5-5311	A5-5217
VOLUME P.C. BOARD	A5-5312	A5-5218
PROTECTOR P.C. BOARD	94-5010	
MAIN AMP. P.C. BOARD	94-5013	92-5005 5ED

3. MAIN AMPLIFIER ADJUSTMENTS

MODEL AA-5810

1) IDLING CURRENT ADJUSTMENT

Adjust VR2 (left channel) and VR2b (right channel) to obtain an idling current of 40mA.

2) D.C. BALANCE ADJUSTMENT

Adjust VR1 (left channel) and VR1b (right channel) to obtain Zero Voltage at Main Amp. P.C. Board terminal ① (left channel) and terminal ⑪ (right channel).

MODEL AA-5510

1) IDLING CURRENT

Adjust VR2 (left channel) and VR2b (right channel) to obtain an idling current of 40mA.

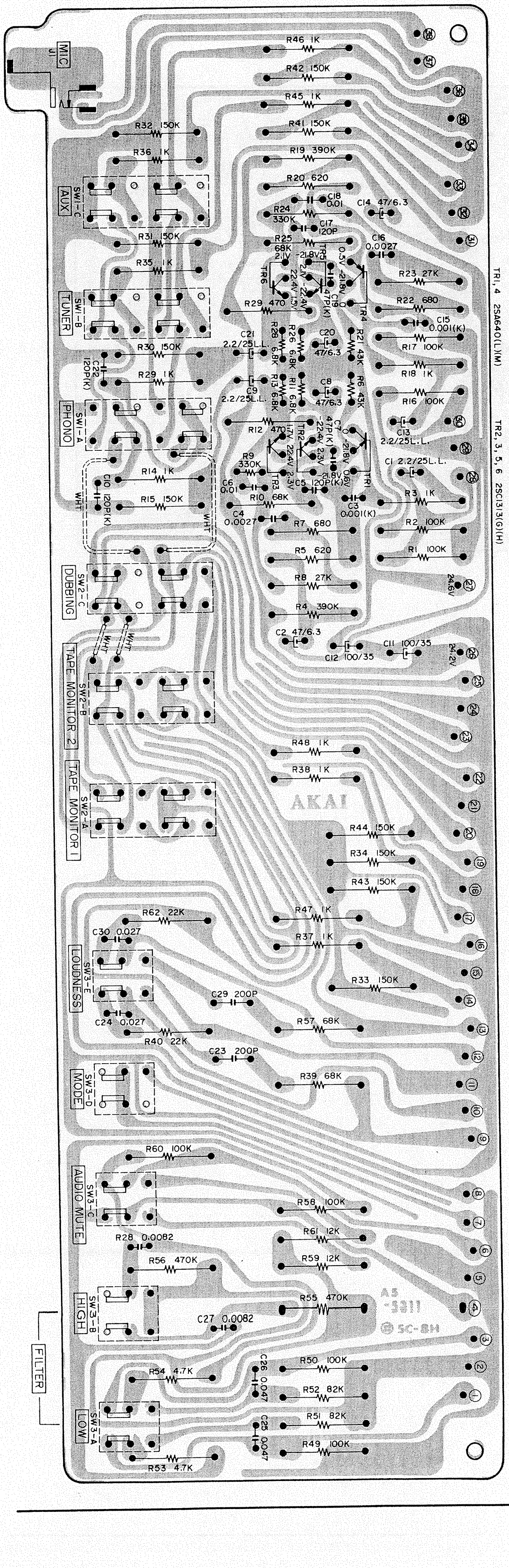
2) D.C. BALANCE ADJUSTMENT

Adjust VR1 (left channel) and VR1b (right channel) so that the collector voltage of Main Amp. P.C. Board Power Transistor TR6 (left channel) and TR6b (right channel) is 1/2 voltage of TR5 and TR5b collector voltage.

IV. COMPOSITE VIEWS OF COMPONENTS

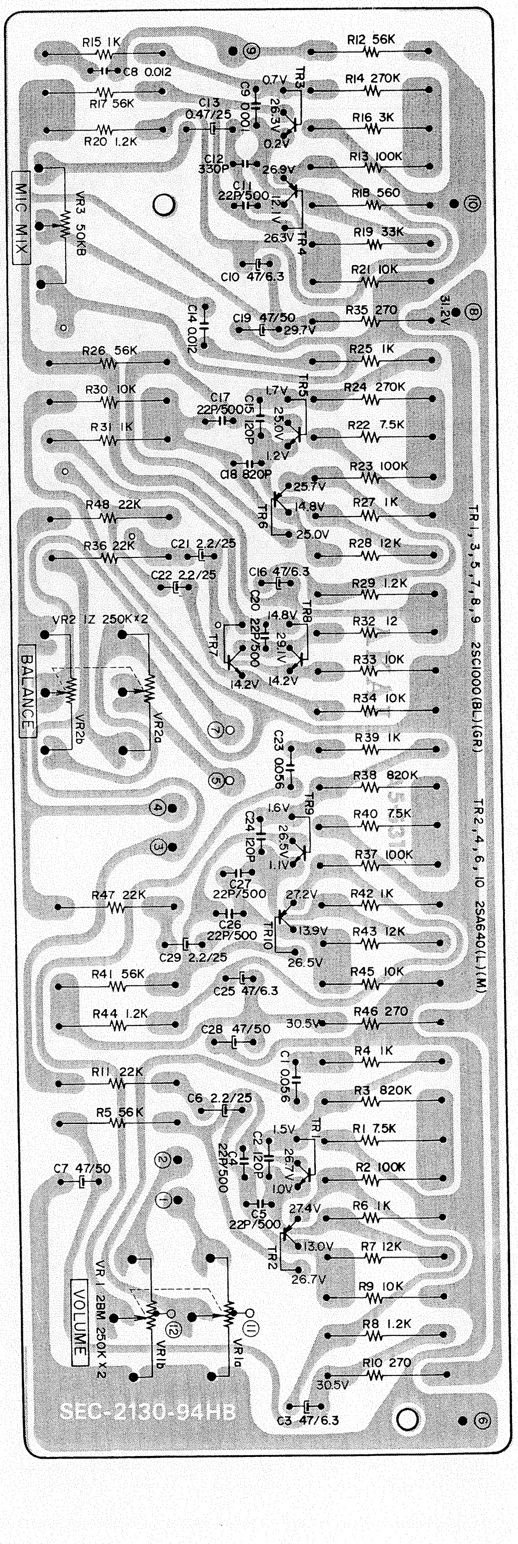
[1] MODEL AA-5810

1. EQUALIZER SW. P.C. BOARD A5-5311



MIC J1
R46 1K
R42 150K
R45 1K
R41 150K
R19 390K
R20 620
R32 150K
R36 1K
SW1-C AUX
R31 150K
R35 1K
SW1-B TUNER
R30 150K
R29 1K
SW1-A PHONO
R14 1K
R15 150K
C10 120P(K)
WHT
SW2-C DUBBING
SW2-B TAPE MONITOR 2
SW2-A TAPE MONITOR 1
R23 27K
R22 680
C15 0.001(K)
R17 100K
R18 1K
R16 100K
C13 2.2/25L.L.
C1 2.2/25L.L.
R3 1K
R2 100K
R1 100K
R5 620
R8 27K
R4 390K
C2 47/6.3
C11 100/35
C12 100/35
C4 0.0027
R7 680
R10 68K
C3 0.001(K)
TR1, 4 2SA640(L)(M)
TR2, 3, 5, 6 2SC1313(G)(H)
24.6V
24.2V
R48 1K
R38 1K
AKAI
R44 150K
R34 150K
R43 150K
R47 1K
R37 1K
R33 150K
R62 22K
C30 0.027
SW3-E LOUDNESS
C24 0.027
R40 22K
C29 200P
C23 200P
R57 68K
R39 68K
SW3-D MODE
R60 100K
SW3-C AUDIO MUTE
R58 100K
R61 12K
R28 0.0082
R56 470K
R59 12K
SW3-B HIGH
C27 0.0082
R55 470K
A5-5311
FILTER
R54 4.7K
R50 100K
C26 0.047
R52 82K
R51 82K
SW3-A LOW
C25 0.047
R49 100K
R53 4.7K

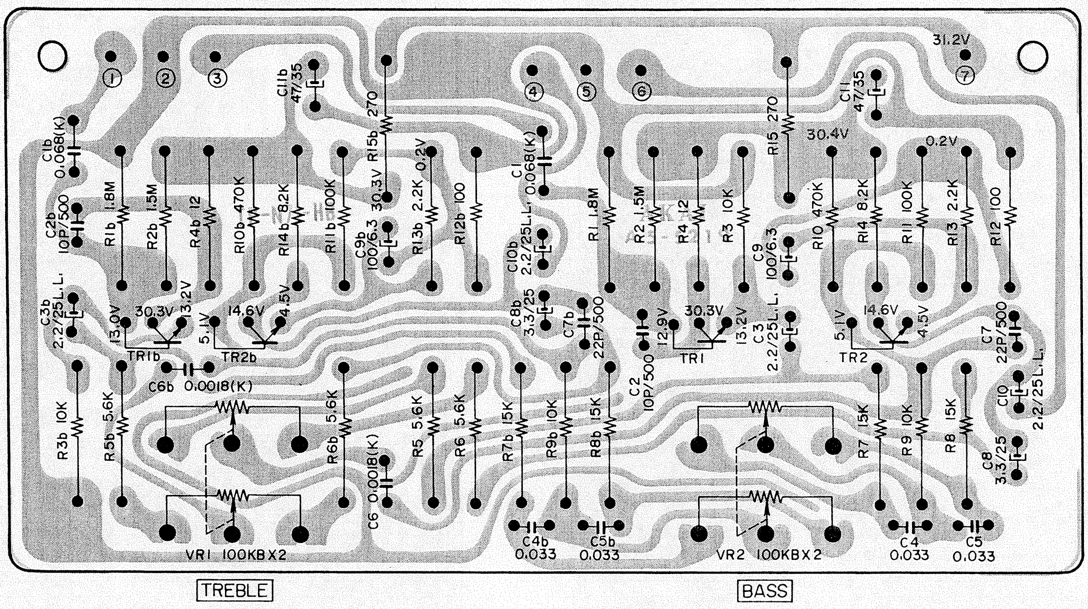
2. VOLUME P.C. BOARD A5-5312



R15 1K
C8 0.012
R17 56K
R20 1.2K
C13 0.47/25
C9 0.001
R12 56K
R14 270K
R16 3K
R13 100K
C12 330P
C11 22P/500
R18 560
R19 33K
R21 10K
VR3 50KB MIC MIX
C10 47/6.3
C14 0.012
C19 47/50
R35 270
31.2V
R26 56K
R25 1K
R30 10K
C17 22P/500
C15 120P
R24 270K
R31 1K
R22 7.5K
C18 820P
R23 100K
R48 22K
R27 1K
R36 22K
C21 2.2/25
R28 12K
C22 2.2/25
C16 47/6.3
R29 1.2K
VR2 1Z 250K×2 BALANCE
C20 22P/500
R32 12
R33 10K
R34 10K
R39 1K
C23 0.056
R38 820K
C24 120P
R40 7.5K
R37 100K
R47 22K
C27 22P/500
R42 1K
C26 22P/500
R43 12K
C29 2.2/25
R41 56K
C25 47/6.3
R45 10K
R44 1.2K
C28 47/50
R46 270
R4 1K
R11 22K
C1 0.056
R3 820K
C6 2.2/25
R5 56K
R1 7.5K
C7 47/50
C2 120P
C4 22P/500
R2 100K
C5 22P/500
R6 1K
R7 12K
VR1 2BM 250K×2 VOLUME
R9 10K
R8 1.2K
R10 270
C3 47/6.3
SEC-2130-94HB
TR1, 3, 5, 7, 8, 9 2SC1000(BL)(GR)
TR2, 4, 6, 10 2SA640(L)(M)

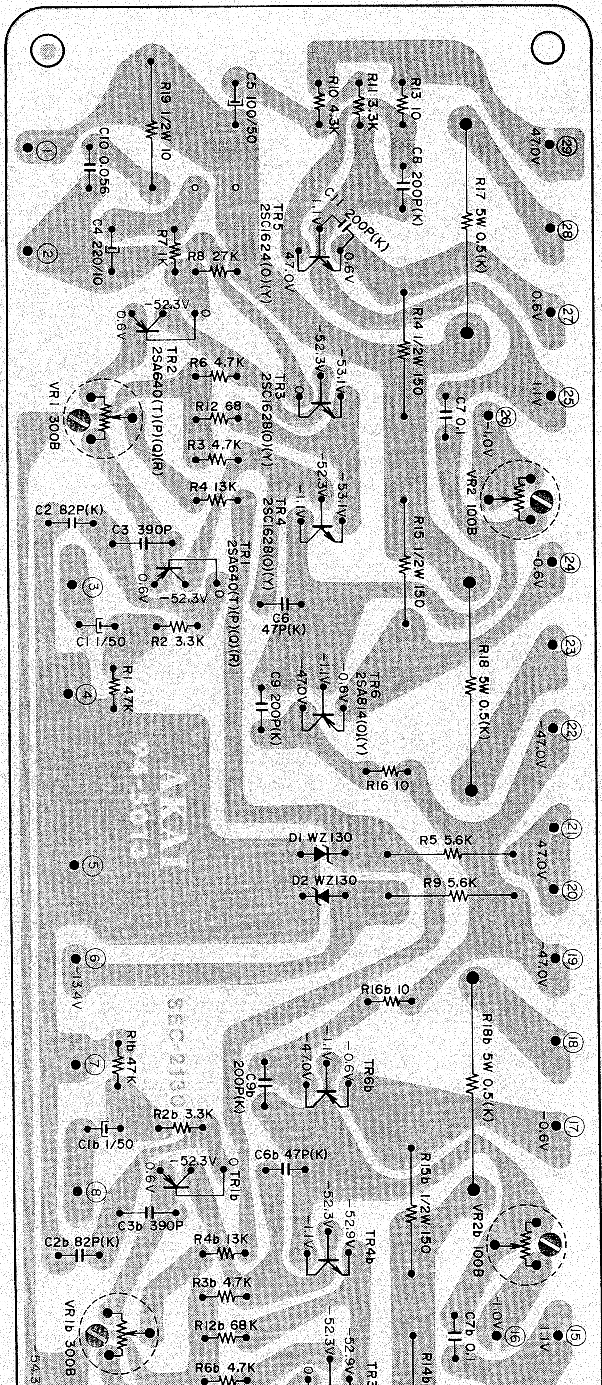
3. TONE CONTROL P.C. BOARD A5-5219

	AA-5510	AA-5810
TR1, 2, 1b, 2b	2SC1312R(F)(G)	2SC1000(BL)(GR)

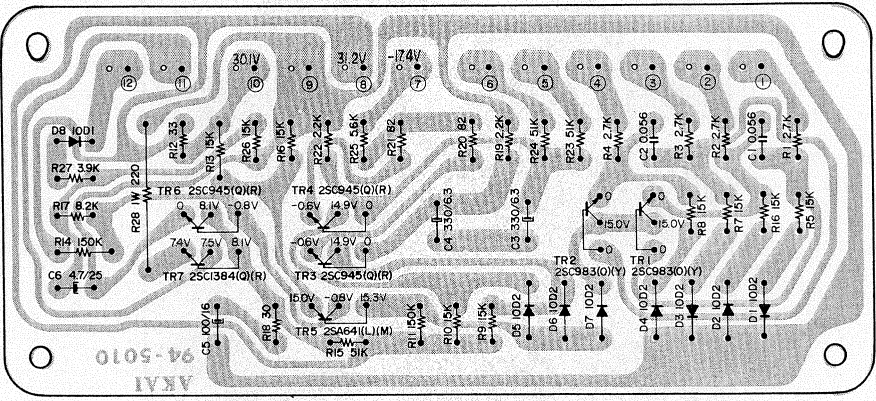


①
②
③
C11b 47/35
R15b 270
④
⑤
⑥
R15 270
C11 47/35
31.2V
⑦
30.4V
0.2V
C1b 0.068(K)
C2b 10P/500
R1b 1.8M
R2b 1.5M
R4b 12
R10b 470K
R14b 8.2K
R11b 100K
30.3V
C9b 100/6.3
R13b 2.2K
0.2V
R12b 100
C1 0.068(K)
C10b 2.2/25L.L.
R1 1.8M
R2 1.5M
R4 12
R3 10K
C9 100/6.3
R10 470K
R14 8.2K
R11 100K
R13 2.2K
R12 100
C3b 2.2/25L.L.
30.3V
13.2V
13.0V
5.1V
14.6V
4.5V
TR1b
TR2b
C6b 0.0018(K)
C8b 3.3/25
C7b 22P/500
12.9V
30.3V
13.2V
TR1
C3 2.2/25L.L.
5.1V
14.6V
4.5V
TR2
C7 22P/500
C2 10P/500
C10 2.2/25L.L.
R3b 10K
R5b 5.6K
R6b 5.6K
C6 0.0018(K)
R5 5.6K
R6 5.6K
R7b 15K
R9b 10K
R8b 15K
R7 15K
R9 10K
R8 15K
C8 3.3/25
C4b 0.033
C5b 0.033
VR1 100KBX2
VR2 100KBX2
C4 0.033
C5 0.033
TREBLE
BASS

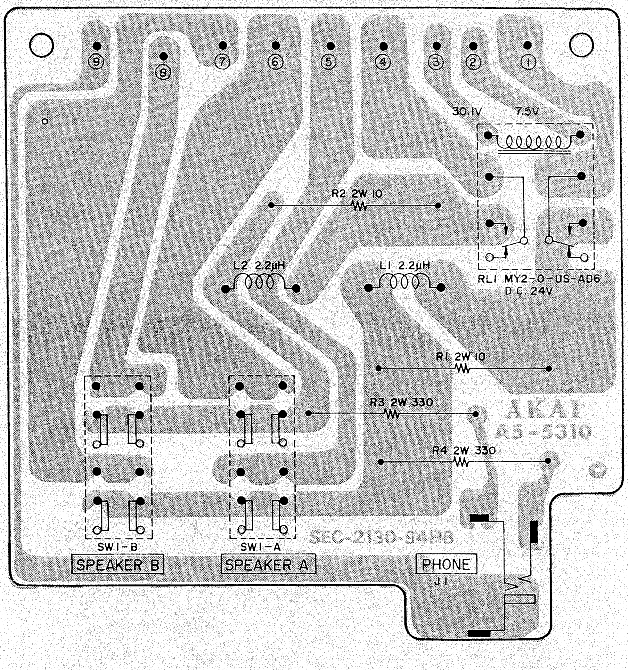
4. MAIN AMP. P.C. BOARD 94-5013


AKAI
94-5013
SEC-2130
R19 1/2W 10
C5 100/50
R10 4.3K
R11 3.3K
R13 10
C8 200P(K)
C11 200P(K)
TR5 2SC1624(O)(Y)
R17 5W 0.5(K)
C10 0.056
C4 220/10
R7 1K
R8 27K
TR2 2SA640(T)(P)(Q)(R)
R6 4.7K
R12 68
R3 4.7K
R4 13K
TR3 2SC1628(O)(Y)
TR4 2SC1628(O)(Y)
R14 1/2W 150
C7 0.1
VR1 300B
VR2 100B
C2 82P(K)
C3 390P
TR1 2SA640(T)(P)(Q)(R)
R15 1/2W 150
C6 47P(K)
C1 1/50
R2 3.3K
R1 47K
C9 200P(K)
TR6 2SA814(O)(Y)
R18 5W 0.5(K)
R16 10
D1 WZ130
D2 WZ130
R5 5.6K
R9 5.6K
R16b 10
R18b 5W 0.5(K)
TR6b
C9b 200P(K)
R1b 47K
R2b 3.3K
C1b 1/50
C6b 47P(K)
TR1b
C3b 390P
C2b 82P(K)
R4b 13K
R15b 1/2W 150
TR4b
VR2b 100B
R3b 4.7K
R12b 68K
R6b 4.7K
VR1b 300B
C7b 0.1
R14b 1/2W 150
TR3b
TR2b
R7b 1K
R8b 27K
C4b 220/10
C10b 0.056
C11b 200P(K)
TR5b
C8b 200P(K)
R17b 5W 0.5(K)
R19b 1/2W 10
C5b 100/50
R10b 4.3K
R11b 3.3K
R13b 10
47.0V
0.6V
1.1V
-1.0V
-0.6V
-47.0V
-52.3V
-53.1V
-52.9V
-1.1V
-13.4V
-54.3V
0
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙

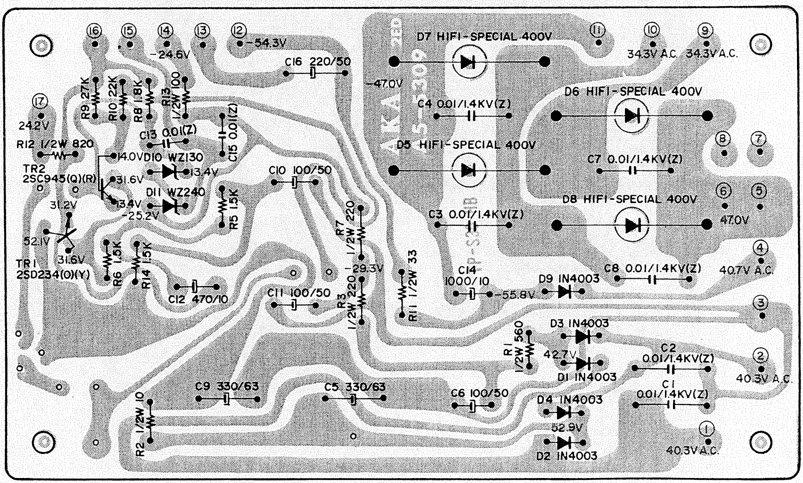
5. PROTECTOR P.C. BOARD 94-5010


⑫ ⑪ ⑩ ⑨ ⑧ ⑦ ⑥ ⑤ ④ ③ ② ①
30.1V
31.2V
-17.4V
D8 10D1
R27 3.9K
R17 8.2K
R14 150K
C6 4.7/25
R28 1W 220
R12 33
R13 15K
R26 15K
R16 15K
R22 2.2K
R25 5.6K
R21 82
R20 82
R19 2.2K
R24 51K
R23 51K
R4 2.7K
C2 0.056
R3 2.7K
R2 2.7K
C1 0.056
R1 2.7K
TR6 2SC945(Q)(R)
0 8.1V -0.8V
7.4V 7.5V 8.1V
TR7 2SC1384(Q)(R)
TR4 2SC945(Q)(R)
-0.6V 14.9V 0
-0.6V 14.9V 0
TR3 2SC945(Q)(R)
C4 330/6.3
C3 330/6.3
0
15.0V
0
0
15.0V
0
R8 15K
R7 15K
R16 15K
R5 15K
TR2 2SC983(O)(Y)
TR1 2SC983(O)(Y)
C5 100/16
R18 30
15.0V -0.8V 15.3V
TR5 2SA641(L)(M)
R15 51K
R11 150K
R10 15K
R9 15K
D5 10D2
D6 10D2
D7 10D2
D4 10D2
D3 10D2
D2 10D2
D1 10D2
AKAI
94-5010

6. SPEAKER SW. P.C. BOARD A5-5310


⑨ ⑧ ⑦ ⑥ ⑤ ④ ③ ② ①
30.1V
7.5V
R2 2W 10
L2 2.2µH
L1 2.2µH
RL1 MY2-0-US-AD6
D.C. 24V
R1 2W 10
R3 2W 330
R4 2W 330
AKAI
A5-5310
SW1-B
SW1-A
SEC-2130-94HB
SPEAKER B
SPEAKER A
PHONE
J1

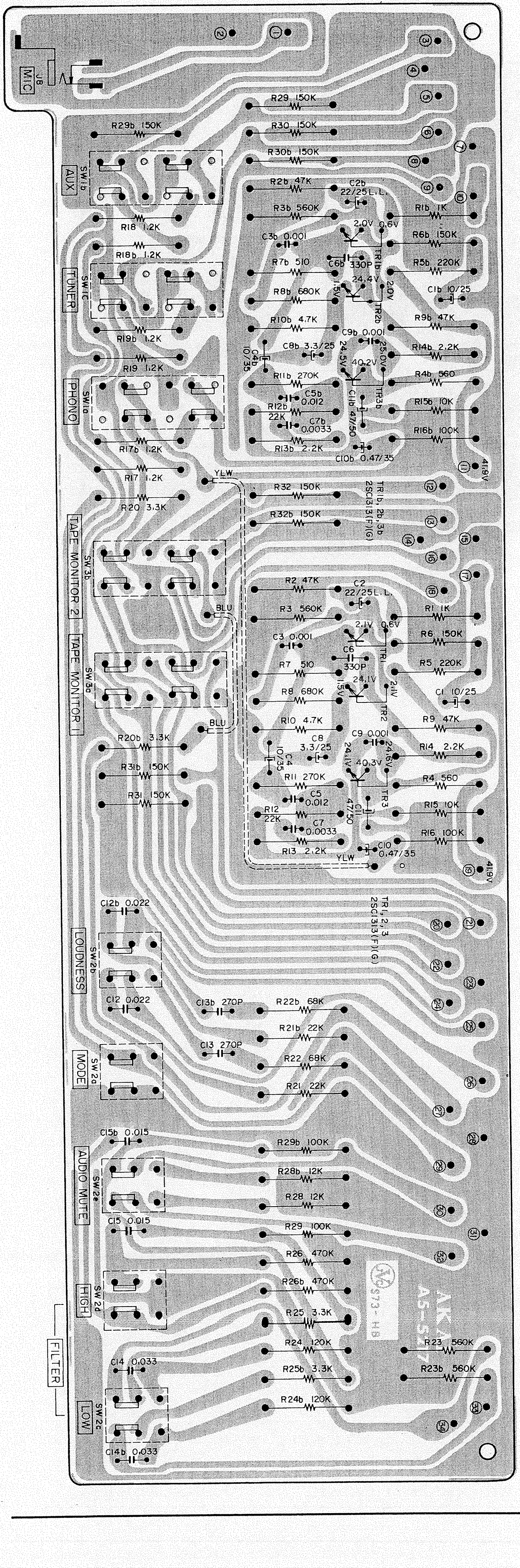
7. POWER SUPPLY P.C. BOARD A5-5309


⑯ ⑮ ⑭ ⑬ ⑫
-54.3V
-24.6V
C16 220/50
-47.0V
D7 HIFI-SPECIAL 400V
⑪ ⑩ ⑨
34.3V A.C.
34.3V A.C.
⑰
24.2V
R9 27K
R10 22K
R8 1.8K
R13 1/2W 100
C13 0.01(Z)
C15 0.01(Z)
R12 1/2W 820
TR2 2SC945(Q)(R)
14.0V
D10 WZ130
13.4V
31.6V
13.4V
D11 WZ240
-25.2V
31.2V
52.1V
31.6V
TR1 2SD234(O)(Y)
R6 1.5K
R14 1.5K
R5 1.5K
C12 470/10
C10 100/50
C11 100/50
R7 1/2W 220
-29.3V
R3 1/2W 220
R11 1/2W 33
C4 0.01/1.4KV(Z)
D6 HIFI-SPECIAL 400V
D5 HIFI-SPECIAL 400V
C7 0.01/1.4KV(Z)
⑧ ⑦
⑥ ⑤
D8 HIFI-SPECIAL 400V
C3 0.01/1.4KV(Z)
47.0V
④
40.7V A.C.
C14 1000/10
-55.8V
D9 1N4003
C8 0.01/1.4KV(Z)
③
D3 1N4003
R1 1/2W 560
42.7V
D1 1N4003
C2 0.01/1.4KV(Z)
②
40.3V A.C.
C1 0.01/1.4KV(Z)
C9 330/63
C5 330/63
C6 100/50
D4 1N4003
52.9V
D2 1N4003
R2 1/2W 10
①
40.3V A.C.
AKAI
A5-5309

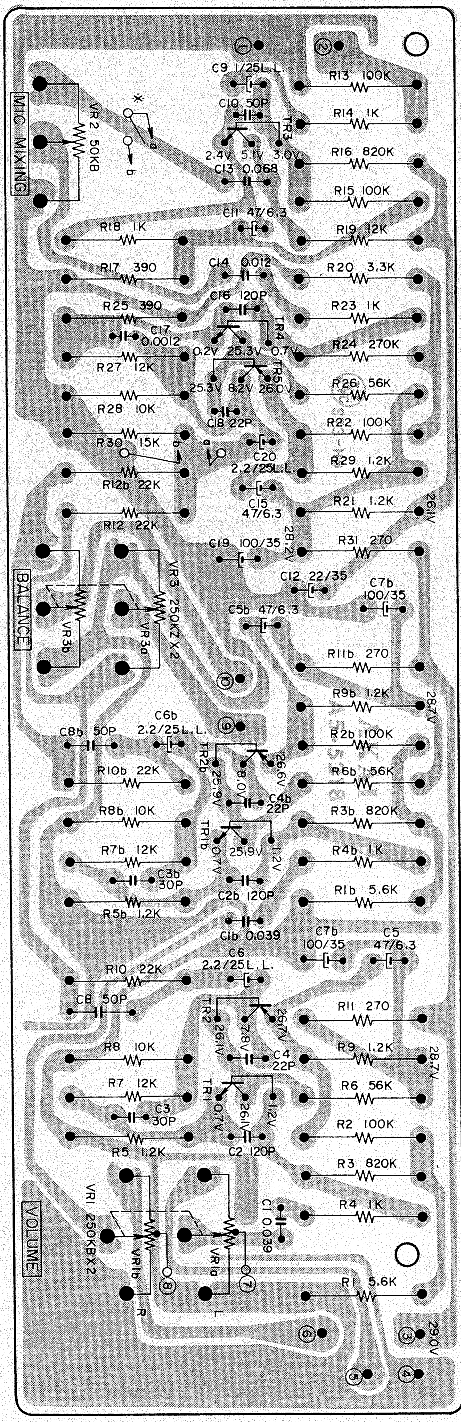
[2] MODEL AA-5510

1. EQUALIZER SW. P.C. BOARD A5-5217

2. VOLUME P.C. BOARD A5-5218



MIC
J8
AUX
SW1b
TUNER
SW1c
PHONO
SW1a
TAPE MONITOR 2
SW3b
TAPE MONITOR 1
SW3a
LOUDNESS
SW2b
MODE
SW2a
AUDIO MUTE
SW2e
HIGH
SW2d
FILTER
LOW
SW2c
YLW
BLU
R29 150K
R29b 150K
R30 150K
R30b 150K
R2b 47K
C2b 22/25L.L.
R3b 560K
R1b 1K
C3b 0.001
R6b 150K
R7b 510
C6b 330P
R5b 220K
R8b 680K
C1b 10/25
R10b 4.7K
R9b 47K
C9b 0.001
C8b 3.3/25
C4b 10/35
R14b 2.2K
R11b 270K
R4b 560
C5b 0.012
R12b 22K
C11b 47/50
R15b 10K
C7b 0.0033
R16b 100K
R13b 2.2K
C10b 0.47/35
TR1b
TR2b
TR3b
R18 1.2K
R18b 1.2K
R19b 1.2K
R19 1.2K
R17b 1.2K
R17 1.2K
R20 3.3K
R32 150K
R32b 150K
TR1b, 2b, 3b 2SC1313(F)(G)
R2 47K
C2 22/25L.L.
R3 560K
R1 1K
C3 0.001
R6 150K
C6 330P
R7 510
R5 220K
R8 680K
C1 10/25
R10 4.7K
R9 47K
C9 0.001
C8 3.3/25
C4 10/35
R14 2.2K
R11 270K
R4 560
C5 0.012
R12 22K
C11 47/50
R15 10K
C7 0.0033
R16 100K
R13 2.2K
C10 0.47/35
TR1
TR2
TR3
TR1, 2, 3 2SC1313(F)(G)
R20b 3.3K
R31b 150K
R31 150K
41.9V
C12b 0.022
C12 0.022
C13b 270P
R22b 68K
R21b 22K
C13 270P
R22 68K
R21 22K
C15b 0.015
R29b 100K
R28b 12K
R28 12K
C15 0.015
R29 100K
R26 470K
R26b 470K
R25 3.3K
R24 120K
R23 560K
R25b 3.3K
R23b 560K
R24b 120K
C14 0.033
C14b 0.033
AKAI A5-5217
S73-H8



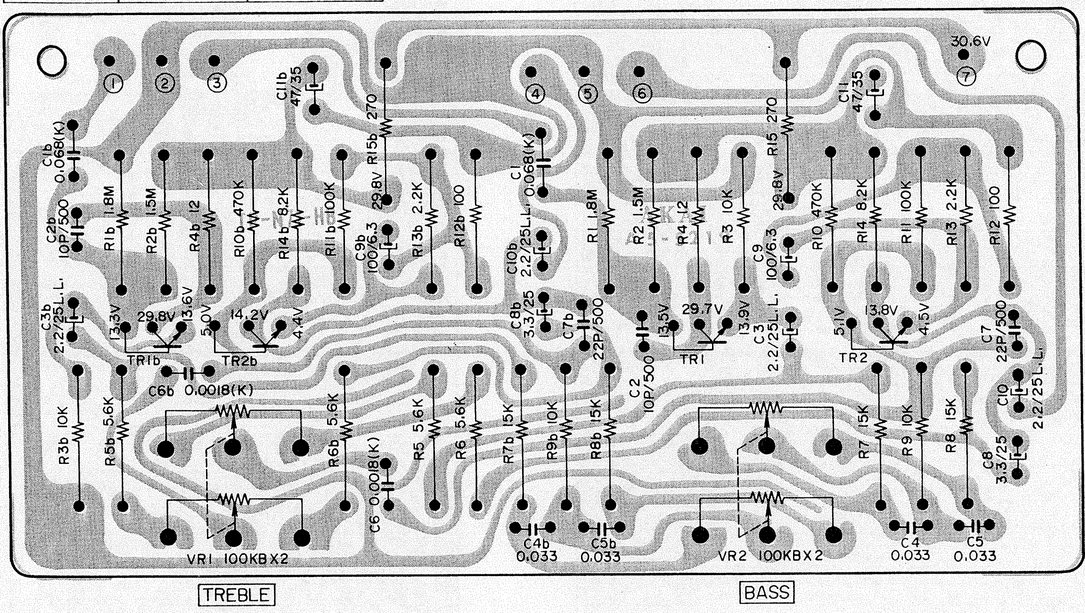
MIC MIXING
VR2 50KB
BALANCE
VR3 250KZ×2
VR3a
VR3b
VOLUME
VR1 250KB×2
VR1a
VR1b
R
L
C9 1/25L.L.
C10 50P
TR3
C13 0.068
C11 47/6.3
R13 100K
R14 1K
R16 820K
R15 100K
R19 12K
R18 1K
R17 390
C14 0.012
R20 3.3K
R25 390
C16 120P
R23 1K
C17 0.0012
TR4
TR5
R27 12K
R24 270K
R26 56K
R28 10K
C18 22P
R22 100K
R30 15K
C20 2.2/25L.L.
R29 1.2K
R12b 22K
C15 47/6.3
R21 1.2K
R12 22K
C19 100/35
R31 270
C12 22/35
C7b 100/35
C5b 47/6.3
R11b 270
R9b 1.2K
C8b 50P
C6b 2.2/25L.L.
R2b 100K
R10b 22K
TR2b
R6b 56K
C4b 22P
R8b 10K
R3b 820K
TR1b
R4b 1K
R7b 12K
C3b 30P
C2b 120P
R1b 5.6K
R5b 1.2K
C1b 0.039
C7b 100/35
C5 47/6.3
R10 22K
C6 2.2/25L.L.
C8 50P
R11 270
TR2
R8 10K
C4 22P
R9 1.2K
R6 56K
R7 12K
TR1
C3 30P
R2 100K
R5 1.2K
C2 120P
R3 820K
R4 1K
C1 0.039
R1 5.6K
29.0V
28.7V
26.1V
AKAI A5-5218

※ COUPLED WITH MIC MIXING VOLUME

TR1, 1b, 3, 4 2SC1312(F)(G) TR2, 2b, 5 2SA640(L)(M)

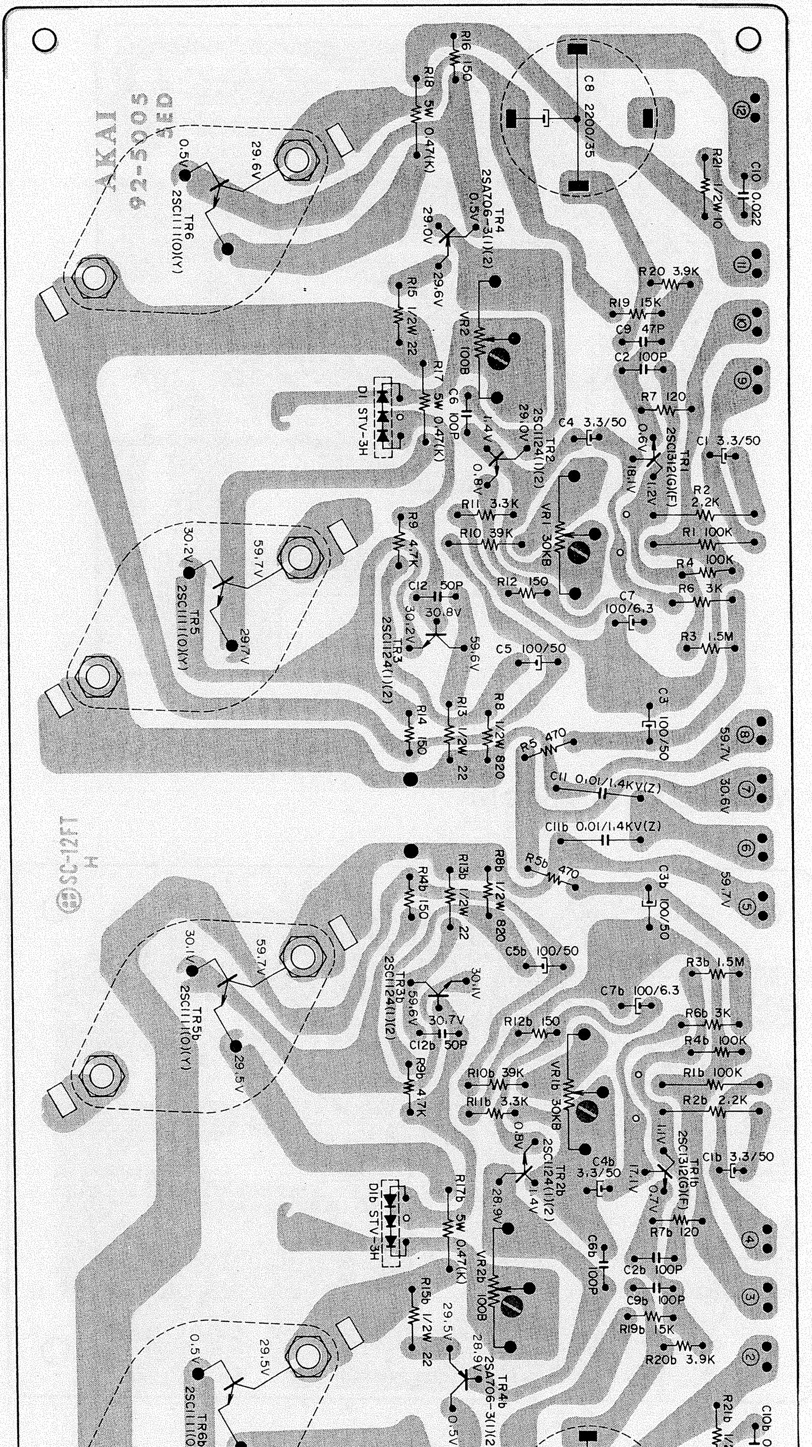
3. TONE CONTROL P.C. BOARD A5-5219

	AA-5510	AA-5810
TR1, 2, 1b, 2b	2SC1312R(F)(G)	2SC1000(BL)(GR)

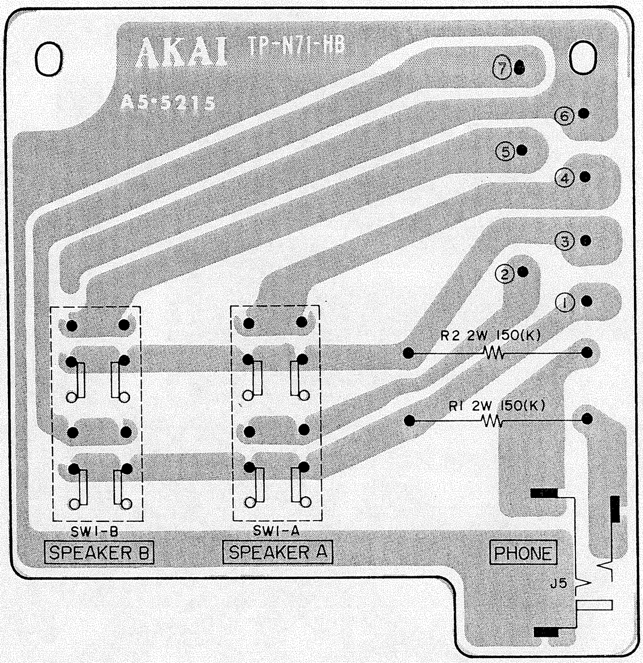


①
②
③
④
⑤
⑥
⑦
30.6V
C11b 47/35
R15b 270
C1 0.068(K)
R15 270
C11 47/35
C1b 0.068(K)
C2b 10P/500
R1b 1.8M
R2b 1.5M
R4b 12
R10b 470K
R14b 8.2K
R11b 100K
29.8V
C9b 100/6.3
R13b 2.2K
R12b 100
C10b 2.2/25L.L.
R1 1.8M
R2 1.5M
R4 12
R3 10K
29.8V
C9 100/6.3
R10 470K
R14 8.2K
R11 100K
R13 2.2K
R12 100
C3b 2.2/25L.L.
13.3V
29.8V
13.6V
5.0V
14.2V
4.4V
TR1b
TR2b
C6b 0.0018(K)
C8b 3.3/25
C7b 22P/500
13.5V
29.7V
13.9V
TR1
C3 2.2/25L.L.
5.1V
13.8V
4.5V
TR2
C7 22P/500
C2 10P/500
C10 2.2/25L.L.
R3b 10K
R5b 5.6K
R6b 5.6K
C6 0.0018(K)
R5 5.6K
R6 5.6K
R7b 15K
R9b 10K
R8b 15K
R7 15K
R9 10K
R8 15K
C8 3.3/25
C4b 0.033
C5b 0.033
VR1 100KBX2
VR2 100KBX2
C4 0.033
C5 0.033
TREBLE
BASS

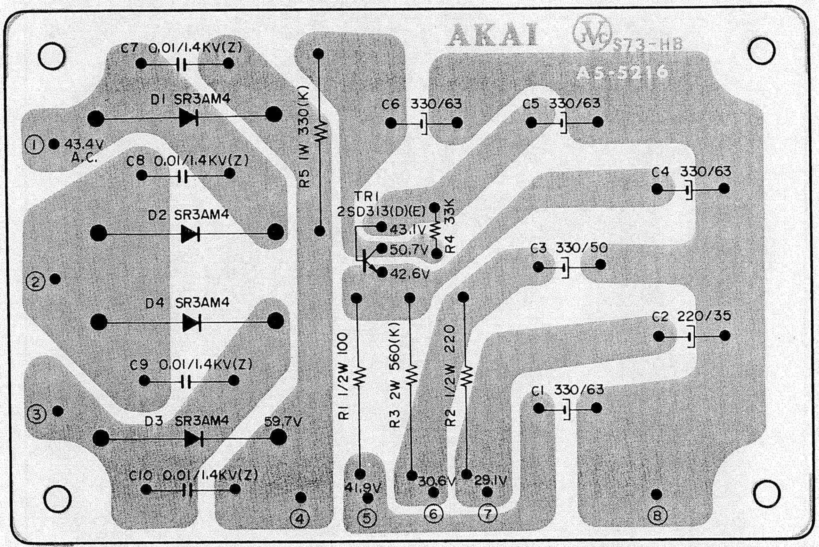
4. MAIN AMP. P.C. BOARD 92-5005


AKAI
92-5005
SED
SC-12FT
H
R16 150
R18 5W 0.47(K)
C8 2200/35
R21 1/2W 10
C10 0.022
TR6 2SC1111(O)(Y)
29.6V
0.5V
TR4 2SA706-3(1)(2)
0.5V
29.0V
29.6V
R15 1/2W 22
VR2 100B
R17 5W 0.47(K)
D1 STV-3H
C6 100P
TR2 2SC1124(1)(2)
29.0V
1.4V
0.8V
R20 3.9K
R19 15K
C9 47P
C2 100P
R7 120
C4 3.3/50
TR1 2SC1312(G)(F)
0.6V
18.1V
1.2V
C1 3.3/50
R2 2.2K
R1 100K
R4 100K
R6 3K
R3 1.5M
R11 3.3K
R10 39K
VR1 30KB
R12 150
C7 100/6.3
R9 4.7K
C12 50P
TR5 2SC1111(O)(Y)
59.7V
30.2V
29.7V
TR3 2SC1124(1)(2)
30.8V
30.2V
59.6V
C5 100/50
R14 150
R13 1/2W 22
R8 1/2W 820
R5 470
C3 100/50
C11 0.01/1.4KV(Z)
C11b 0.01/1.4KV(Z)
59.7V
30.6V
59.7V
R5b 470
C3b 100/50
R14b 150
R13b 1/2W 22
R8b 1/2W 820
C5b 100/50
TR5b 2SC1111(O)(Y)
59.7V
30.1V
29.5V
TR3b 2SC1124(1)(2)
59.6V
30.1V
30.7V
C12b 50P
R9b 4.7K
R3b 1.5M
C7b 100/6.3
R6b 3K
R4b 100K
R12b 150
R10b 39K
R11b 3.3K
VR1b 30KB
R1b 100K
R2b 2.2K
TR2b 2SC1124(1)(2)
0.8V
1.4V
28.9V
C4b 3.3/50
TR1b 2SC1312(G)(F)
1.1V
17.1V
0.7V
C1b 3.3/50
R7b 120
C2b 100P
C9b 100P
R19b 15K
R20b 3.9K
R17b 5W 0.47(K)
D1b STV-3H
C6b 100P
VR2b 100B
R15b 1/2W 22
29.5V
28.9V
TR4b 2SA706-3(1)(2)
0.5V
TR6b 2SC1111(O)(Y)
0.5V
29.5V
R21b 1/2W 10
C10b 0.022
C8b 2200/35
R18b 5W 0.47(K)
R16b 150
⑫
⑪
⑩
⑨
⑧
⑦
⑥
⑤
④
③
②
①

5. SPEAKER SW. P.C. BOARD A5-5215


AKAI TP-N71-HB
A5-5215
⑦
⑥
⑤
④
③
②
①
R2 2W 150(K)
R1 2W 150(K)
SW1-B
SW1-A
SPEAKER B
SPEAKER A
PHONE
J5

6. POWER SUPPLY P.C. BOARD A5-5216


AKAI S73-HB
A5-5216
C7 0.01/1.4KV(Z)
D1 SR3AM4
① 43.4V A.C.
C8 0.01/1.4KV(Z)
D2 SR3AM4
②
D4 SR3AM4
C9 0.01/1.4KV(Z)
③
D3 SR3AM4
59.7V
C10 0.01/1.4KV(Z)
④
R5 1W 330(K)
C6 330/63
C5 330/63
C4 330/63
TR1
2SD313(D)(E)
43.1V
50.7V
42.6V
R4 33K
C3 330/50
C2 220/35
R1 1/2W 100
R3 2W 560(K)
R2 1/2W 220
C1 330/63
41.9V
30.6V
29.1V
⑤
⑥
⑦
⑧

SECTION 2

PARTS LIST

AA-5810

TABLE OF CONTENTS

Fig. 1 EQ. SW. P.C. BOARD (A5-5311) BLOCK 20
Fig. 2 VOL. P.C. BOARD (A5-5312) BLOCK 20
Fig. 3 TONE CONTROL P.C. BOARD (A5-5219) BLOCK 20
Fig. 4 MAIN AMP. (94-5013) BLOCK 22
Fig. 5 PROTECTOR P.C. BOARD (94-5010) BLOCK 22
Fig. 6 SPEAKER SW. P.C. BOARD (A5-5310) BLOCK 23
Fig. 7 POWER SUPPLY P.C. BOARD (A5-5309) BLOCK 23
Fig. 8 ASSEMBLY BLOCK 24
Fig. 9 FINAL ASSEMBLY BLOCK 26

HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read List

The reference number corresponds with illustration or photo number of that particular parts list.

This number corresponds with the Figure Number.

This number corresponds with the individual parts index number in that figure.

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

12-115x

Schematic Diagram Number of individual manufactured part. (not required for parts order)

Quantity of particular part required.

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		FLYWHEEL BLOCK #13		
12-115x	800425	Flywheel Block Assy. Comp.	RDG #13	1
12-116	244506	Flywheel Only	RD-233	1
12-117x	244754	Felt, Flywheel	RD-275	1
12-118	251324	Main Metal Case	RD-236	1
12-119	253080	Main Metal	RD-237	1

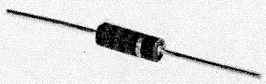
4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of Components of the Schematic Diagram or Service Manual.
5. The indications of Resistors and Capacitors in the photos of P.C. Board are being eliminated.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
7. Please utilize separate "Common List for Service Parts" for Resistor Parts orders.
8. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.

   It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
9. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

ELECTRICAL PARTS TABLE

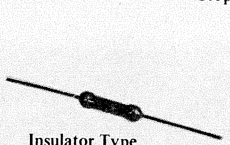
Because the indication of resistors and capacitors in the P.C. Board photos are being eliminated, please confirm parts name and shape by comparing them with the parts shown in this table.

1



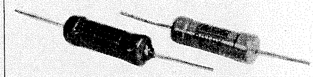
Solid Resistor

2



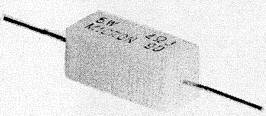
Carbon Resistor

3



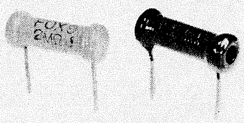
Metal Oxide Film Resistor

4



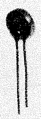
Cement Resistor

5



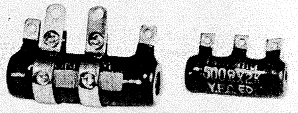
Wire-Wound Resistor

6



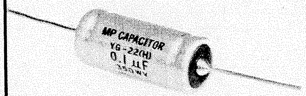
Thermister

7



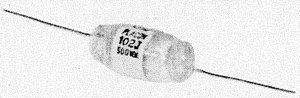
Enamel Resistor

1



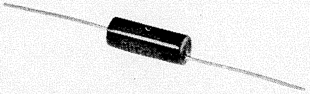
MP Capacitor (Tubular Type)

2



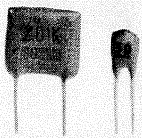
Plastic Capacitor

3



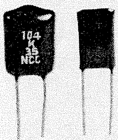
Mylar Capacitor

4



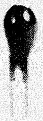
VFM (Hi-Q) Capacitor

5



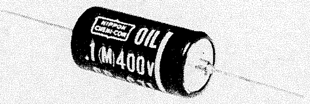
Mylar Capacitor

6



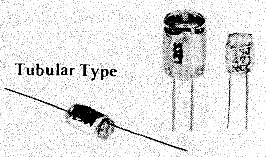
Tantalum Capacitor

7



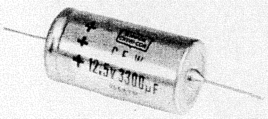
Oil Capacitor (Tubular Type)

8



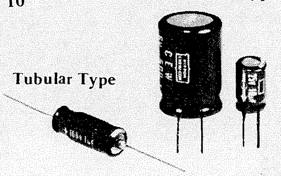
Styrol Capacitor

9



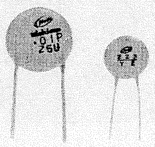
Electrolytic Capacitor (Tubular Type)

10



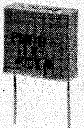
Electrolytic Capacitor

11



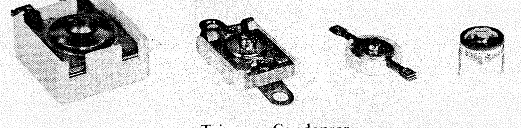
Ceramic Capacitor

12



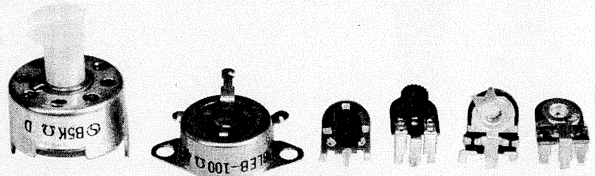
Metalized Mylar (Paper) Capacitor

13



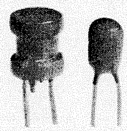
Trimmer Condenser

VR



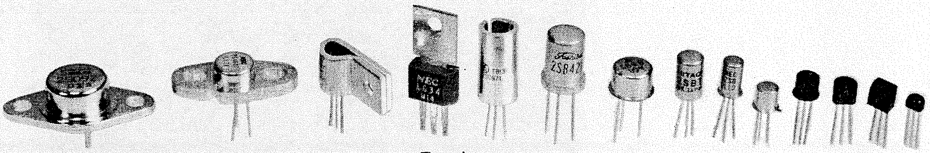
Semi-Fixed Volume

L



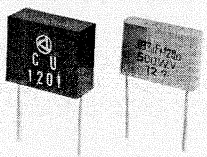
Ferri Inductor

TR



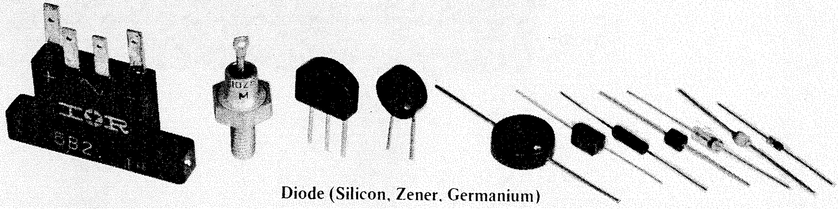
Transistor

CR



Spark Quencher

D



Diode (Silicon, Zener, Germanium)

FIG. 1 PHOTO OF EQ. SW. P.C. BOARD (A5-5311) BLOCK

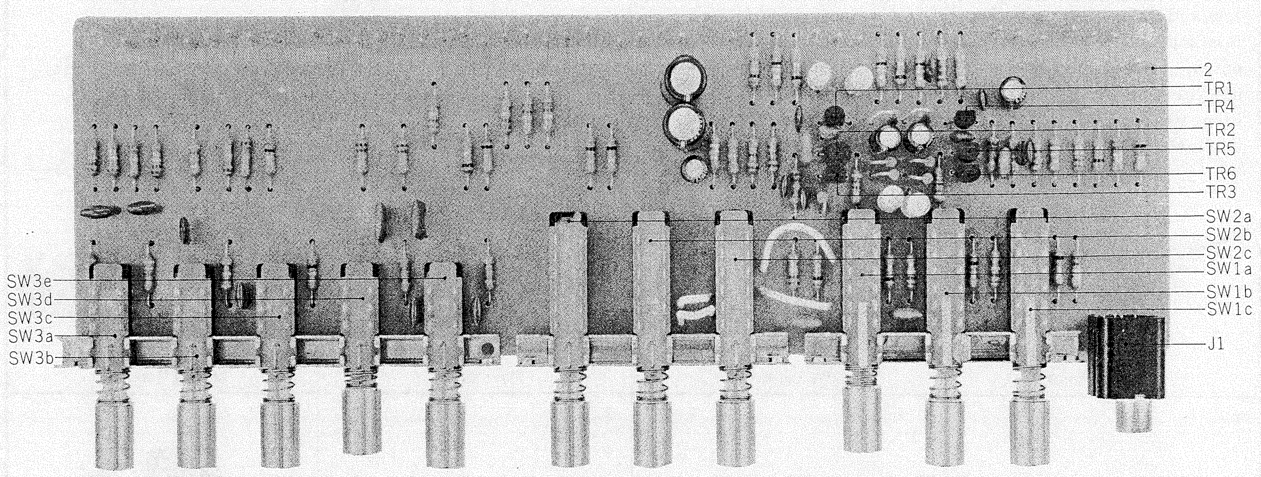

SW3e
SW3d
SW3c
SW3a
SW3b
2
TR1
TR4
TR2
TR5
TR6
TR3
SW2a
SW2b
SW2c
SW1a
SW1b
SW1c
J1

FIG. 2 PHOTO OF VOL. P.C. BOARD (A5-5312) BLOCK

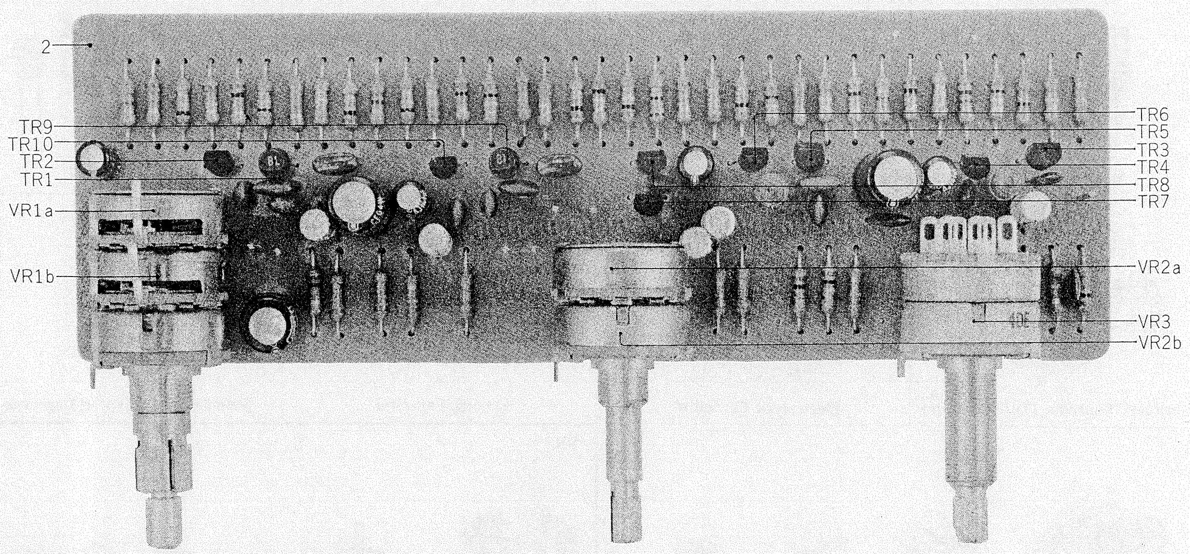
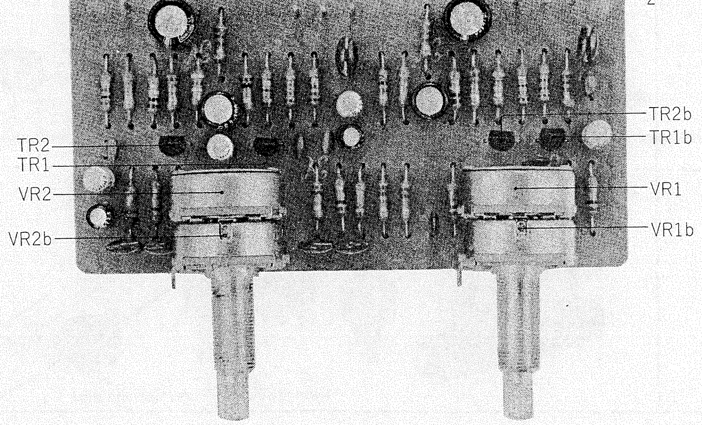

2
TR9
TR10
TR2
TR1
VR1a
VR1b
TR6
TR5
TR3
TR4
TR8
TR7
VR2a
VR3
VR2b

FIG. 3 PHOTO OF TONE CONTROL P.C. BOARD (A5-5219) BLOCK


2
TR2
TR1
VR2
VR2b
TR2b
TR1b
VR1
VR1b

EQ. SW. P.C. BOARD (A5-5311) BLOCK

Symbol No.	Parts No.	Description	Q'ty
1-1x	BA622890	EQ. SW. P.C. Board Comp. (A5-5311)	1
1-TR1	ET460912	Transistor 2SA640 (L) (M)	1
1-TR2,3	ET604124	Transistor 2SC1313 (G) (H)	2
1-TR4	ET460912	Transistor 2SA640 (L) (M)	1
1-TR5,6	ET604124	Transistor 2SC1313 (G) (H)	2
1-SW1	ES623968	Push SW. 3FT-0001FF1320	1
1-SW2	ES624148	Push SW. 3FS-12U-173	1
1-SW3	ES628672	Push SW. 5FT-0004FF-1320	1
1-J1	EJ391094	Mic. Jack 2PMJ1P	1
1-2	EJ539662	Wrapping Post 1×17	9
		Capacitor, Vertical Type	
1-C1	EC478945	Elect. 2.2μF 25WV NL	1
1-C2	EC329771	Elect. 47μF 6.3WV	1
1-C3	EC302264	Mylar 0.001μF (K) 50WV	1
1-C4	EC379776	Mylar 0.0027μF (J) 50WV	1
1-C5	EC290542	VFM 120PF (K) 50WV	1
1-C6	EC302321	Mylar 0.01μF (J) 50WV	1
1-C7	EC487394	VFM 47PF (K) 50WV	1
1-C8	EC329771	Elect. 47μF 6.3WV	1
1-C9	EC478945	Elect. 2.2μF 25WV NL	1
1-C10	EC290542	VFM 120PF (K) 50WV	1
1-C11,12	EC455354	Elect. 100μF 35WV	2
1-C13	EC478945	Elect. 2.2μF 25WV NL	1
1-C14	EC329771	Elect. 47μF 6.3WV	1
1-C15	EC302264	Mylar 0.001μF (K) 50WV	1
1-C16	EC379776	Mylar 0.0027μF (J) 50WV	1
1-C17	EC290542	VFM 120PF (K) 50WV	1
1-C18	EC302321	Mylar 0.01μF (J) 50WV	1
1-C19	EC487394	VFM 47PF (K) 50WV	1
1-C20	EC329771	Elect. 47μF 6.3WV	1
1-C21	EC478945	Elect. 2.2μF 25WV NL	1
1-C22	EC290542	VFM 120PF (K) 50WV	1
1-C23	EC389237	VFM 200PF (J) 50WV	1
1-C24	EC329872	Mylar 0.047μF (J) 50WV	1
1-C25,26	EC379225	Mylar 0.047μF (J) 50WV	2
1-C27,28	EC413684	Mylar 0.0082μF (J) 50WV	2
1-C29	EC389237	VFM 200PF (J) 50WV	1
1-C30	EC329872	Mylar 0.027μF (J) 50WV	1

Carbon Resistor Omitted.

VOL. P.C. BOARD (A5-5312) BLOCK

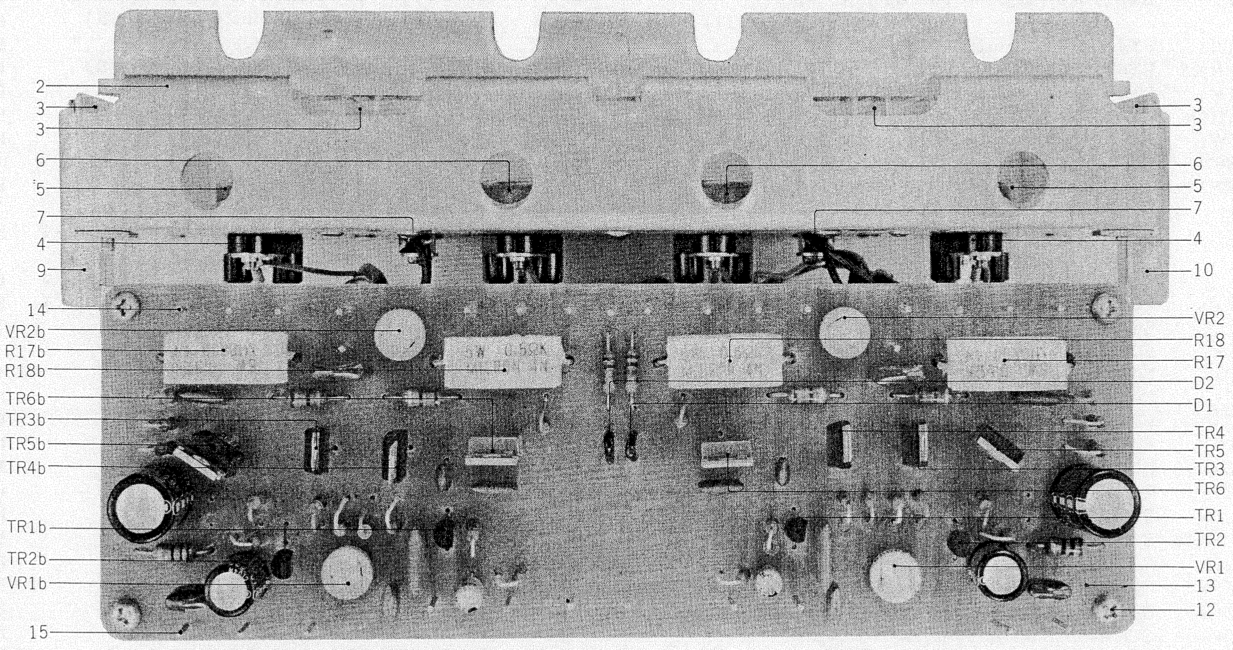
Symbol No.	Parts No.	Description	Q'ty
2-1x	BA622888	Vol. P.C. Board Comp. (A5-5312)	1
2-TR1	ET622181	Transistor 2SC1000 (BL) (GR)	1
2-TR2	ET460912	Transistor 2SA640 (L) (M)	1
2-TR3	ET622181	Transistor 2SC1000 (BL) (GR)	1
2-TR4	ET460912	Transistor 2SA640 (L) (M)	1
2-TR5	ET622181	Transistor 2SC1000 (BL) (GR)	1
2-TR6	ET460912	Transistor 2SA640 (L) (M)	1
2-TR7to9	ET622181	Transistor 2SC1000 (BL) (GR)	3
2-TR10	ET460912	Transistor 2SA640 (L) (M)	1
2-VR1	EV616623	Co-axial 2-throw/Vol. (w/pre set) V24L5DGM 2BM250k×2	1
2-VR2	EV616645	Co-axial 2-throw/Vol. V24L5GPHN 1Z250k×2	1
2-VR3	EV616634	Vol. (w/switch) VJ11R-SF22 50 kA	1
2-2	EJ539662	Wrapping Post 1×17	10
		Capacitor, Vertical Type	
2-C1	EC251201	Mylar 0.056μF (K) 50WV	1
2-C2	EC290542	VFM 120PF (K) 50WV	1
2-C3	EC329771	Elect. 47μF 6.3WV	1
2-C4,5	EC556525	FM 22PF (K) 500WV	2
2-C6	EC478945	Elect. 2.2μF 25WV NL	1
2-C7	EC346735	Elect. 47μF 50WV	1
2-C8	EC338670	Mylar 0.012μF (K) 50WV	1
2-C9	EC302264	Mylar 0.001μF (K) 50WV	1
2-C10	EC329771	Elect. 47μF 6.3WV	1
2-C11	EC556525	FM 22PF (K) 500WV	1
2-C12	EC516745	Styrol 330PF (K) 50WV	1
2-C13	EC622991	Elect. 0.47μF 25WV	1
2-C14	EC338670	Mylar 0.012μF (K) 50WV	1
2-C15	EC290542	VFM 120PF (K) 50WV	1
2-C16	EC329771	Elect. 47μF 6.3WV	1
2-C17	EC556525	FM 22PF (K) 500WV	1
2-C18	EC623002	Styrol 820PF (K) 50WV	1
2-C19	EC346735	Elect. 47μF 50WV	1
2-C20	EC556525	FM 22PF (K) 500WV	1
2-C21,22	EC478945	Elect. 2.2μF 25WV NL	2
2-C23	EC251201	Mylar 0.056μF (K) 50WV	1
2-C24	EC290542	VFM 120PF (K) 50WV	1
2-C25	EC329771	Elect. 47μF 6.3WV	1
2-C26,27	EC556525	FM 22PF (K) 500WV	2
2-C28	EC346735	Elect. 47μF 50WV	1
2-C29	EC478945	Elect. 2.2μF 25WV NL	1

TONE CONTROL P.C. BOARD (A5-5219) BLOCK

Symbol No.	Parts No.	Description	Q'ty
3-1x	BA622877	Tone Control P.C. Board Comp. (A5-5219)	1
3-TR1,2	ET517263	Transistor 2SC1312 (G) (H)	4
3-VR1,2	EV602458	Co-axial 2-throw/Vol. V24L5GPHN 1kB 100k×2	2
3-2	EJ539662	Wrapping Post 1×17	7
		Capacitor, Vertical Type	
3-C1	EC313323	Mylar 0.068μF (K) 50WV	2
3-C2	EC474671	VFM 10PF (K) 50WV	2
3-C3	EC478945	Elect. 2.2μF 25WV NL	2
3-C4,5	EC379157	Mylar 0.033μF (J) 50WV	4
3-C6	EC362068	Mylar 0.0018μF (K) 50WV	2
3-C7	EC556525	FM 22PF (K) 500WV	2
3-C8	EC331828	Elect. 3.3μF 25WV	2
3-C9	EC336104	Elect. 100μF 6.3WV	2
3-C10	EC478945	Elect. 2.2μF 25WV NL	2
3-C11	EC590837	Elect. 47μF 35WV	2

Carbon Resistor Omitted.

FIG. 4 PHOTO OF MAIN AMP. (94-5013) BLOCK

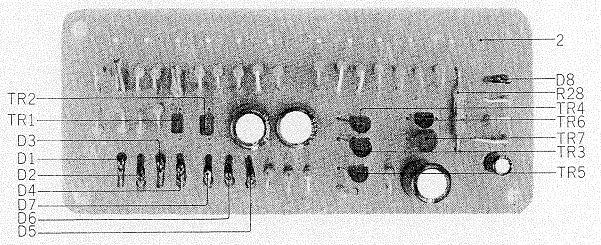


MAIN AMP. (94-5013) BLOCK

Symbol No.	Parts No.	Description	Q'ty
	MAIN AMP. BLOCK		
4-1x	BA622822	Main Amp. Block Comp.	1
4-2	EZ626152	Heat-sink Plate	1
4-3	EZ626141	Heat-sink Plate (Small)	1
4-4	EJ624486	Power TR. Socket	4
4-5	ET623013	Transistor 2SD427 (O) (Y)	2
4-6	ET623024	Transistor 2SB557 (O) (Y)	2
4-7	ED551733	Silicon Varistor STV-4H	2
4-8x	ZS609535	Tapping Screw #2 3×12, w/washer	2
4-9	EZ626220	Heat-sink Mt. Plate A	1
4-10	EZ626354	Heat-sink Mt. Plate B	1
4-11x	ZS379350	ISO Screw, pan head 3×6	2
4-12	ZS325495	Tapping Screw #2 3×6	4
4-13	BA622833	Main Amp. P.C. Board Comp.	1
	MAIN AMP. P.C. BOARD BLOCK		
4-13	BA622833	Main Amp. P.C. Board Comp.	1
4-TR1,2	ET561802	Transistor 2SA640 (1)	4
4-TR3,4	ET623035	Transistor 2SC1628 (O) (Y)	4
4-TR5	ET623046	Transistor 2SC1624 (O) (Y)	2
4-TR6	ET623057	Transistor 2SA814 (O) (Y)	2
4-D1,2	ED539976	Zener Diode WZ-130	2
4-VR1	EV551643	Semi-fixed/Vol. SR19R 330ΩB (Solid Type)	2
4-VR2	EV361798	Semi-fixed/Vol. SR19R 100ΩB (Solid Type)	2
4-R17,18	ER442653	Cement/R. 5W 0.5Ω (K) (Wire-wound Type)	4
4-14	EJ551654	Wrapping Post 1×23	18
4-15	EJ539662	Wrapping Post 1×17	11
		Capacitor, Vertical Type	
4-C1	EC313108	Elect. 1μF 50WV	2
4-C2	EC389024	VFM 82PF (K) 50WV	2
4-C3	EC350717	VFM 390PF (J) 50WV	2
4-C4	EC329782	Elect. 220μF 10WV	2
4-C5	EC321221	Elect. 100μF 50WV	2
4-C6	EC487394	VFM 47PF (K) 50WV	2
4-C7	EC379170	Mylar 0.1μF (J) 50WV	2
4-C8,9	EC539842	VFM 200PF (K) 50WV	4
4-C10	EC368357	Mylar 0.056μF (J) 50WV	2
4-C11	EC539842	VFM 200PF (K) 50WV	2

Carbon Resistor Omitted.

FIG. 5 PHOTO OF PROTECTOR P.C. BOARD (94-5010) BLOCK



PROTECTOR P.C. BOARD (94-5010) BLOCK

Symbol No.	Parts No.	Description	Q'ty
5-1x	BA622855	Protector P.C. Board Comp. (94-5010)	1
5-TR1,2	ET552690	Transistor 2SC983 (O) (Y)	2
5-TR3,4	ET398711	Transistor 2SC945 (Q) (R)	2
5-TR5	ET552701	Transistor 2SA641 (L) (M)	1
5-TR6	ET398711	Transistor 2SC945 (Q) (R)	1
5-TR7	ET565852	Transistor 2SC1384 (Q) (R)	1
5-D1to7	ED224548	Silicon Diode 10D2	7
5-D8	ED224526	Silicon Diode 10D1	1
5-2	EJ539662	Wrapping Post 1×17	12
5-R28	ER429715	Metal Oxide Film/R. 1W 220Ω (J)	1
		Capacitor, Vertical Type	
5-C1,2	EC368357	Mylar 0.056μF (J) 50WV	2
5-C3,4	EC343236	Elect. 330μF 6.3WV	2
5-C5	EC220127	Elect. 100μF 16WV	1
5-C6	EC450527	Elect. 4.7μF 25WV	1

Carbon Resistor Omitted.

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

FIG. 6 PHOTO OF SPEAKER SW. P.C. BOARD (A5-5310) BLOCK

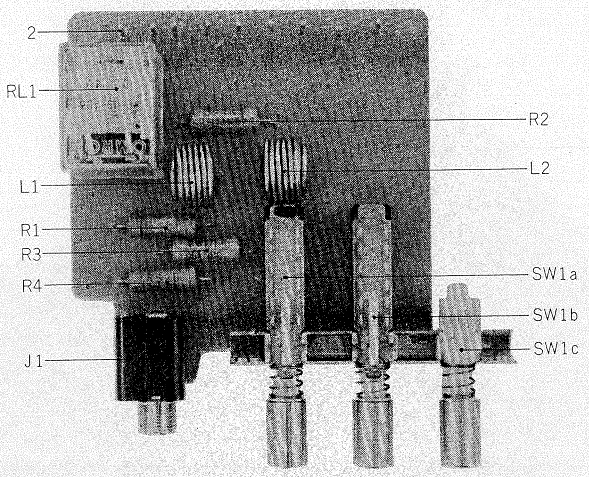
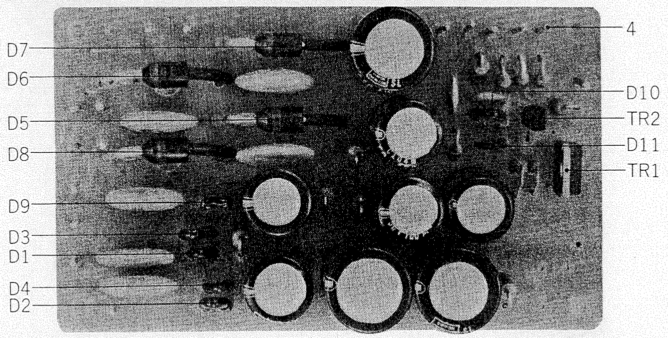


FIG. 7 PHOTO OF POWER SUPPLY P.C. BOARD (A5-5309) BLOCK



SPEAKER SW. P.C. BOARD (A5-5310) BLOCK

Symbol No.	Parts No.	Description	Q'ty
6-1x	BA622901	Speaker SW. P.C. Board Comp. (A5-5310)	1
6-J1	EJ391083	Mic. Jack 3PMJ1P	1
6-RL1	EP325585	Relay MY2-0-AD6 24V	1
6-L1,2	ED551711	Phase Repair Coil 2.2μH	2
6-SW1	ES616612	Push SW. 3F-0006FF2010	1
6-2	EJ539662	Wrapping Post 1×17	9
6-R1,2	ER624745	Metal Oxide Film/R. 2W 10Ω (J)	2
6-R3,4	ER624756	Metal Oxide Film/R. 2W 330Ω (J)	2

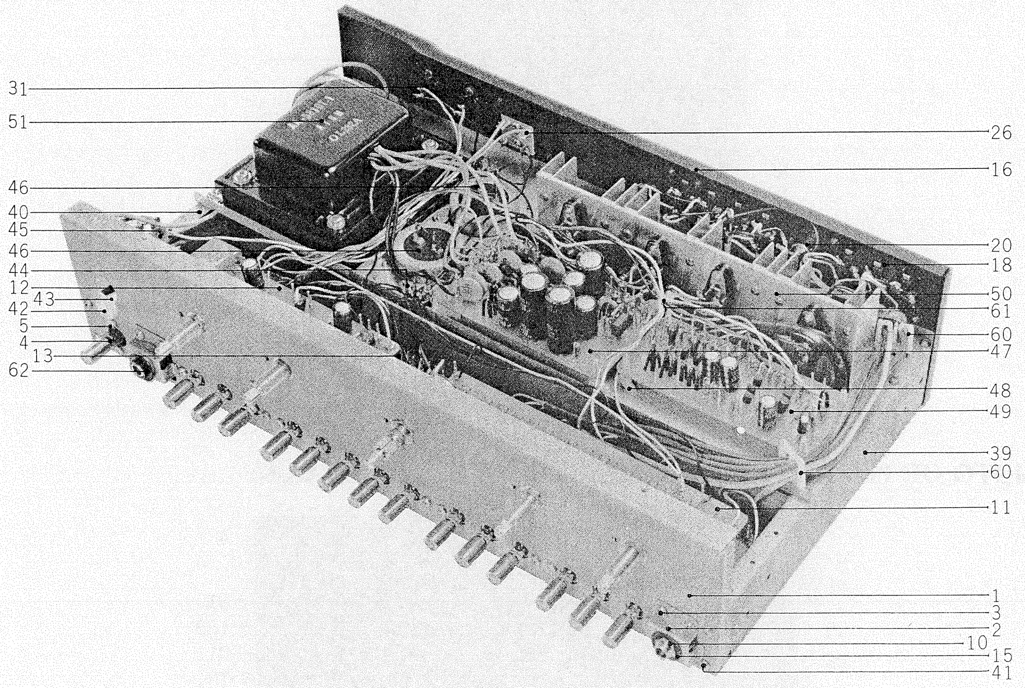
POWER SUPPLY P.C. BOARD (A5-5309) BLOCK

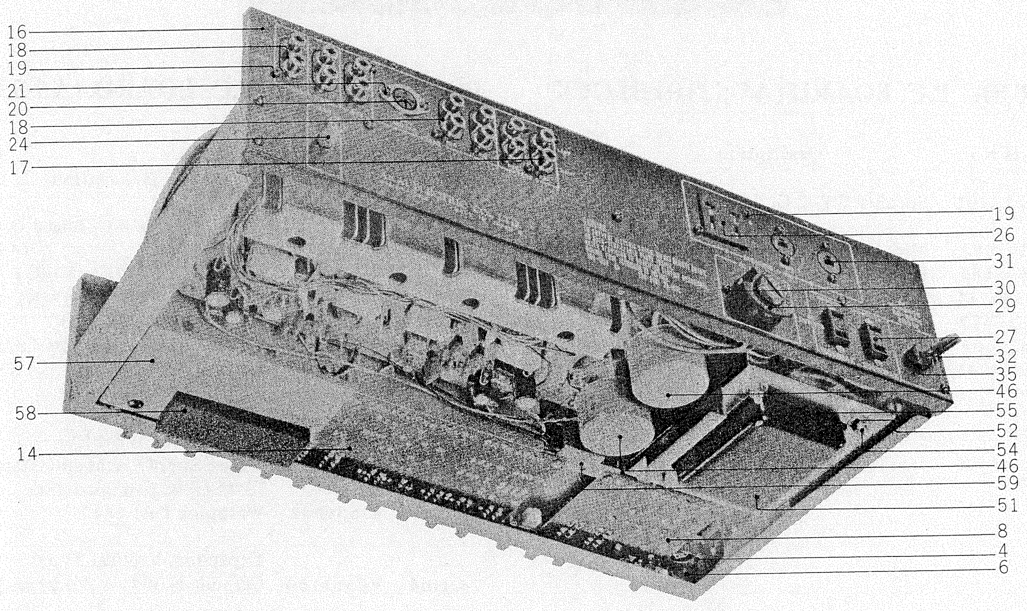
Symbol No.	Parts No.	Description	Q'ty
7-1x	BA622844	Power Supply P.C. Board Comp. (A5-5309)	1
7-TR1	ET393568	Transistor 2SD234 (Y) (O)	1
7-TR2	ET398711	Transistor 2SC945 (Q) (R)	1
7-D1to4	ED570295	Silicon Diode 1N4003	4
7-D5to8	ED558033	Silicon Diode HIFI 400V 3A (Special)	4
7-D9	ED570295	Silicon Diode 1N4003	1
7-D10	ED539976	Zener Diode WZ-130	1
7-D11	ED511918	Zener Diode WZ-240	1
7-2	EZ532203	Power Supply Heat-sink Plate	1
7-3	ZS522922	ISO Screw, pan head 3×6	1
7-4	EJ539662	Wrapping Post 1×17	17
		Capacitor, Vertical Type	
7-C1to4	EC551160	Ceramic NB821 YZ 0.01μF (Z) 1.4 kWV	4
7-C5	EC603112	Elect. 330μF 63WV	1
7-C6	EC321221	Elect. 100μF 50WV	1
7-C7,8	EC551160	Ceramic NB821 YZ 0.01μF (Z) 1.4 kWV	2
7-C9	EC603112	Elect. 330μF 63WV	1
7-C10,11	EC321221	Elect. 100μF 50WV	2
7-C12	EC220768	Elect. 470μF 10WV	1
7-C13	EC557627	Ceramic DB203 YZ 0.01μF (Z) 50WV	1
7-C14	EC220410	Elect. 1000μF 10WV	1
7-C15	EC557627	Ceramic DB203 YZ 0.01μF (Z) 50WV	1
7-C16	EC337533	Elect. 220μF 50WV	1

Carbon Resistor Omitted.

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

FIG. 8 PHOTO OF ASSEMBLY BLOCK


31
51
46
40
45
46
44
12
43
42
5
4
13
62
26
16
20
18
50
61
60
47
48
49
39
60
11
1
3
2
10
15
41


16
18
19
21
20
18
24
17
57
58
14
19
26
31
30
29
27
32
35
46
55
52
54
46
59
51
8
4
6

ASSEMBLY BLOCK

FRONT CHASSIS BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
8-1	TA610918	Front Chassis	A5-5204	1
8-2	EZ610806	Jack Mt. Parts	A5-5205	2
8-3	ZS325495	Tapping Screw #2 3x6		4
8-4	ES469541	Push SW. TV-3 JB52	25-5-60	1
8-5	ZS422076	Screw, pan head 3x5		16
8-6	TA609761	SW. Angle	A5-5009	1
8-7x	EC551160	Ceramic/C. NB821 YZ 0.01μF (Z) 1.4 kWV	24-5-55	1
8-8	BA622901	Speaker SW. P.C. Board Block, AA-5810	A5-5310	1
8-9x	EZ225180	Nylon Collar, Jack	LD-520	2
8-10	ZW270191	E Jack Nut		2
8-11	BA622888	Vol. P.C. Board Comp. AA-5810	A5-5312	1
8-12	BA622877	Tone Control P.C. Board Comp. AA-5810	A5-5219	1
8-13	EZ626128	Shield Plate 2	A5-5314	1
8-14	BA622890	EQ. SW. P.C. Board Block AA-5810	A5-5311	1
8-15	ZW260368	Washer (Fiber) D9.2x18x0.5t		1

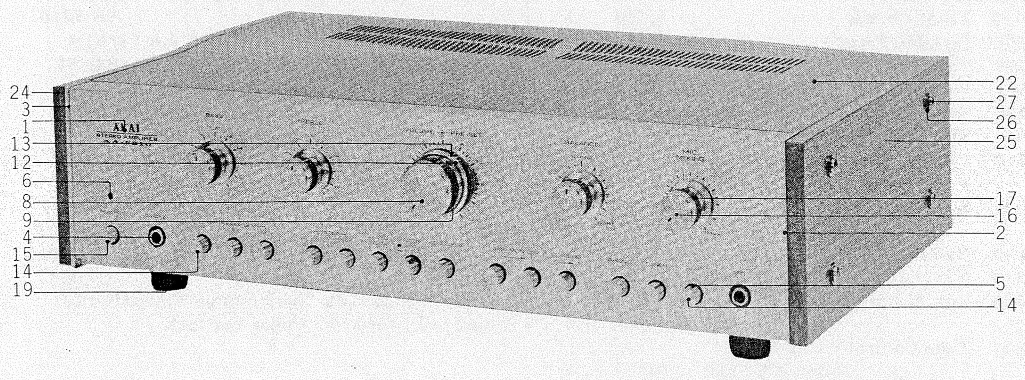
REAR PANEL BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
8-16	SP626174	Rear Panel	A5-5305	1
8-17	EJ557875	Wrapping Pin Jack 2P	31-1-110	1
8-18	EJ551340	Wrapping Pin Jack B T-5347 (B) 6P	31-1-102	2
8-19	ZS570385	Tap-Tight Screw, pan head 3x8 (Black)		16
8-20	EJ589533	5P Din Jack	31-1-111	1
8-21	ZS447761	Tapping Screw #2 3x6 (BR) (Black)		2
8-22x	ER452777	Carbon/R. RD1/4 160k (J) (Insu. Type)	35-9-5	2
8-23x	ER364994	Carbon/R. RD1/4 39k (J) (Insu. Type)	35-9-5	2
8-24	EJ603731	Metal Terminal	32-1-54	1
8-25x	ZW273802	Toothed Lock Washer M3		1
8-26	EJ551316	Speaker Consent P0409	31-1-98	1
8-27	EJ378944	Socket, AC U/L S-I 9122	31-1-47	2
8-28x	EC551160	Ceramic/C. NB821 YZ 0.01μF (Z) 1.4 kWV	24-5-55	1
8-29	EJ233370	Socket S-18010 (Volt. Selector)	40-2-3	1
8-30	ZS421740	Screw, pan head 3x8 (Black)		2
8-31	EJ602886	Socket CS-220	31-1-117	2
8-32	EW524845	AC Cord 2.5M (J)	26-3-31	1
8-33x	EW374894	U/L AC Cord 3M	26-3-19	1
8-34x	EW315448	Australia Cord (3 core)	26-3-11	1
8-35	EZ382263	Strain Relief SR-4K-4	2-7-12	1
8-36x	EZ246936	Strain Relief SR-6W-1 (3 core)	2-7-8	1
8-37x	ZW562487	Earth Lug M4		1
8-38x	ZW273756	Nut M3		4

ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
8-39	TA605924	Side Plate Metal Parts A (Right)	A5-5002	1
8-40	TA606058	Side Plate Metal Parts B (Left)	A5-5002	1
8-41	ZS325495	Tapping Screw #2 3x6		18
8-42	EL443520	Pilot Lamp (L/T) 8V 80MA (60M/Mx2)	28-2-22	1
8-43	TA510502	Lamp Holder	T5-5035	1
8-44	EJ551035	Wrapping Terminal T-5251 4P	32-1-36	2
8-45	EJ254957	Lug Plate KP1L	33-3-2	1
8-46	EC551024	Elect./C. 6800μF 50WV (Lug Type)	24-10-82	2
8-47	BA622844	Power Supply P.C. Board Comp. AA-5810	A5-5309	1
8-48	EJ514034	PC Support	2-7-20	8
8-49	BA622855	Protector P.C. Board Comp. AA-5810	94-5010	1
8-50	BA622822	Main Amp. Block Comp. AA-5810		1
8-51	BT622135	Power Trans. AA-5810T-1	38-4-320	1
8-52	ZW622146	Washer (SPC) D4.1x8x0.5t		4
8-53x	ZW273914	Spring Washer M4		4
8-54	ZW416698	Nut M4		4
8-55	TA626218	Trans. Mt. Plate	A5-5302	1
8-56x	TA605878	Lead Protector	A5-5007	1
8-57	TA626163	Shield Plate 1, w/plate 3	A5-5304	1
8-58	TA626130	Retaining Cushion	A5-5315	2
8-59	EZ626117	P.C. Board Support	A5-5313	1
8-60	EJ510333	Wire Clip 220-JD481610-0104 (Nylon)	2-7-17	2
8-61	MZ229138	Wire Bundle Holder N-108	2-35-1	4
8-62	EZ436217	Collar For Jack	MC-5006	2

FIG. 9 PHOTO OF FINAL ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
9-1	SP626196	Front Panel	A5-5307	1
9-2	TA609816	Side Fitting (Right)	A5-5017	1
9-3	TA609794	Side Fitting (Left)	A5-5017	1
9-4	EZ436217	Collar For Jack	MC-5006	2
9-5	TA545905	Push Button Bush	98-5061	15
9-6	SZ457975	Lamp Lens B	55-5012	1
9-7x	ZS447840	Tapping Screw #2 3x8 (BR)		3
9-8	SK609838	Volume Knob	A5-5049	1
9-9	MB609851	Knob Rubber Ring C (D=28)	A5-5054	1
9-10x	ZS444240	Set Screw, hexagon socket 4×8 (Cup/p.)		1
9-11x	ZW493312	Washer (Nylon) D6.2×10×1t		1
9-12	SK631192	Memory Knob Ring	A5-5048	1
9-13	SK605880	Knob Rubber Ring D (D=33)	A5-5055	1
9-14	SK531224	Push Button Knob	91-5051	14
9-15	SK627524	Push Button Knob G(Orange)	91-5051	1
9-16	SK627535	Single Knob B-2	A5-5053	4
9-17	MB551092	Single Knob Rubber Ring	3-10-8	4
9-18x	BC610907	Bottom Plate	A5-5210	1
9-19	SA616590	Tran Leg G	2-6-12	4
9-20x	ZS447840	Tapping Screw #2 3×8 (BR)		12
9-21x	ZW559135	Tapping Screw #2 4×18 pan head		4
9-22	SP606036	Upper Plate	A5-5019	1
9-23x	ZS447761	Tapping Screw #2 3×6 (BR) (Black)		2
9-24	SP605946	Side Plate A (Left)	A5-5020	1
9-25	SP606047	Side Plate B (Right)	A5-5020	1
9-26	ZW602381	Washer (SPC) D4.2×11×1t		8
9-27	ZW552824	SIO Screw, binding head 4×18		8
9-28x	EF563657	Fuse 3A 250V	39-1-50	1
9-29x	EF563692	Fuse 1.5A 250V	39-1-50	1
9-30x	EJ552778	Short Pin Plug ASB-2	42-1-65	2
9-31x	EJ550912	Speaker Plug ASP-1	42-1-64	2
9-32x	EJ602346	Speaker Plug CP045-1-1	42-1-75	2
9-33x	EW602357	Pin Plug Cord TP-M6	42-1-74	4

SECTION 3

PARTS LIST

AA-5510

TABLE OF CONTENTS

Fig. 10 EQ. SW. P.C. BOARD (A5-5217) BLOCK 28
Fig. 11 VOL. CONTROL P.C. BOARD (A5-5218) BLOCK 28
Fig. 12 TONE CONTROL P.C. BOARD (A5-5219) BLOCK 28
Fig. 13 MAIN AMP. P.C. BOARD (92-5005) BLOCK 30
Fig. 14 SPEAKER SW. P.C. BOARD (A5-5215) BLOCK 31
Fig. 15 POWER SUPPLY P.C. BOARD (A5-5216) BLOCK 31
Fig. 16 ASSEMBLY BLOCK 32
Fig. 17 FINAL ASSEMBLY BLOCK 34
INDEX 35

FIG. 10 PHOTO OF EQ. SW. P.C. BOARD (A5-5217) BLOCK

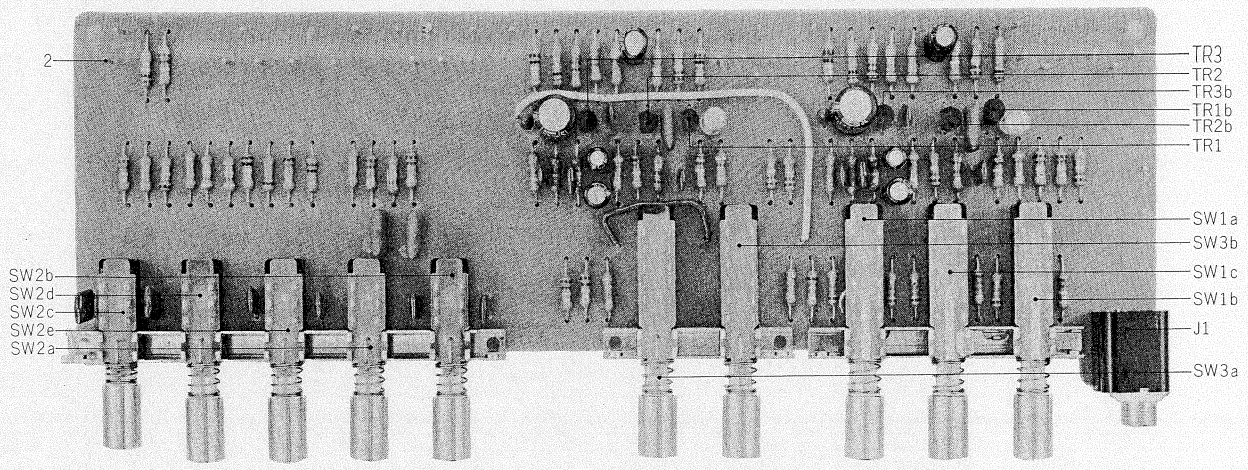

2
TR3
TR2
TR3b
TR1b
TR2b
TR1
SW1a
SW3b
SW1c
SW1b
J1
SW3a
SW2b
SW2d
SW2c
SW2e
SW2a

FIG. 11 PHOTO OF VOL. CONTROL P.C. BOARD (A5-5218) BLOCK

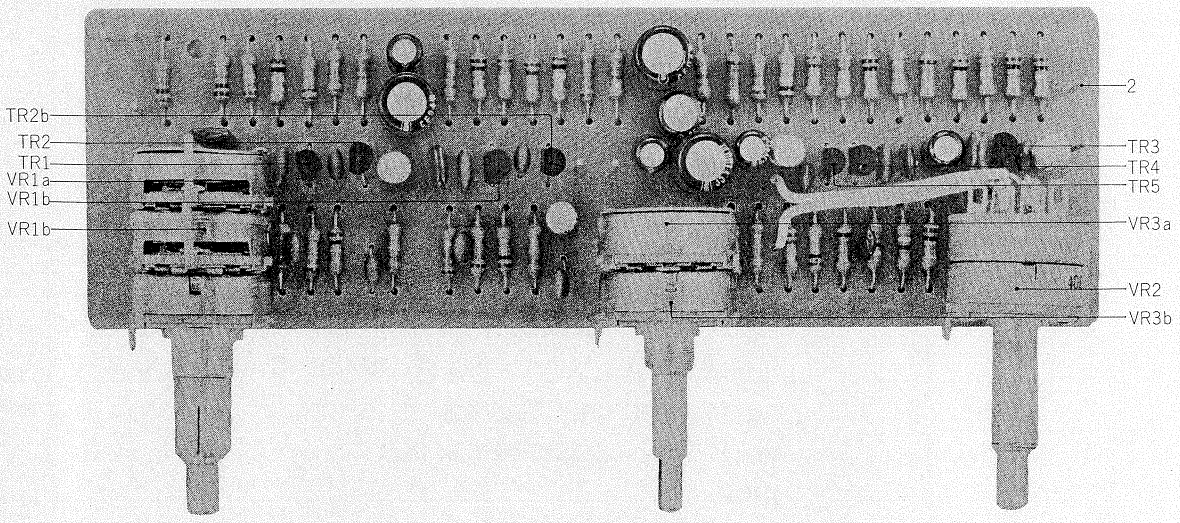
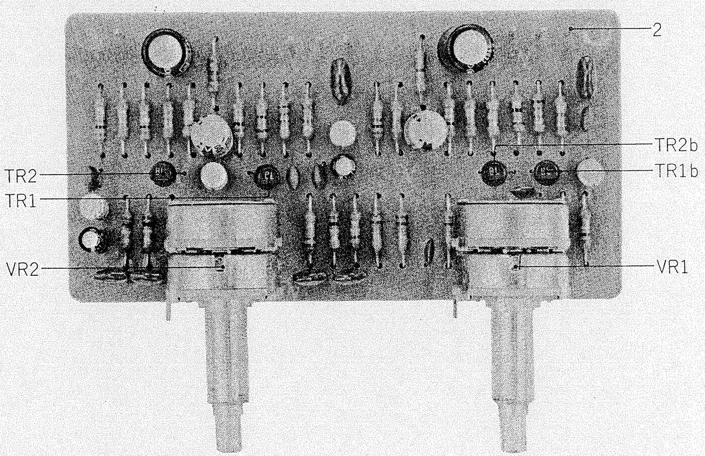

TR2b
TR2
TR1
VR1a
VR1b
VR1b
2
TR3
TR4
TR5
VR3a
VR2
VR3b

FIG. 12 PHOTO OF TONE CONTROL P.C. BOARD (A5-5219) BLOCK


2
TR2
TR1
VR2
TR2b
TR1b
VR1

EQ. SW. P.C. BOARD (A5-5217) BLOCK

Symbol No.	Parts No.	Description	Q'ty
10-1x	BA616792	E.Q. SW. P.C. Board Comp. (A5-5217)	1
10-TR1,2,3	ET602460	Transistor 2SC1313 (F) (G) (H)	6
10-SW1	ES623968	Push SW. 3FT-0001FF1320	1
10-SW2	ES628672	Push SW. 5FT-0004FF-1320	1
10-SW3	ES551272	Push SW. 2FS-8U-70	1
10-J1	EJ391094	Mic. Jack 2PMJ1P	1
10-2	EJ539662	Wrapping Post 1×17	34
		Capacitor, Vertical Type	
10-C1	EC220994	Elect. 10μF 25WV	2
10-C2	EC478945	Elect. 2.2μF 25WV NL	2
10-C3	EC302264	Mylar 0.001μF (K) 50WV	2
10-C4	EC460888	Elect. 10μF 35WV	2
10-C5	EC311793	Mylar 0.012μF (J) 50WV	2
10-C6	EC290575	VFM 330PF (K) 50WV	2
10-C7	EC391004	Mylar 0.0033μF (J) 50WV	2
10-C8	EC331828	Elect. 3.3μF 25WV	2
10-C9	EC302264	Mylar 0.001μF (K) 50WV	2
10-C10	EC496866	Tantalum 0.47μF (M) 35WV (DTS Type)	2
10-C11	EC346735	Elect. 47μF 50WV	2
10-C12	EC368335	Mylar 0.022μF (J) 50WV	2
10-C13	EC336194	VFM 270PF (J) 50WV	2
10-C14	EC379157	Mylar 0.033μF (J) 50WV	2
10-C15	EC250975	Mylar 0.015μF (J) 50WV	2

Carbon Resistor Omitted.

TONE CONTROL P.C. BOARD (A5-5219) BLOCK

Symbol No.	Parts No.	Description	Q'ty
12-1x	BA616781	Tone Control P.C. Board Comp. (A5-5219)	1
12-TR1,2	ET539987	Transistor 2SC1312 (F) (G)	4
12-VR1,2	EV602458	Co-axial 2-throw/Vol. V24L5GPHN 1 kB 100k×2	2
12-2	EJ539662	Wrapping Post 1×17	7
		Capacitor, Vertical Type	
12-C1	EC313323	Mylar 0.068μF (K) 50WV	2
12-C2	EC474671	VFM 10PF (K) 50WV	2
12-C3	EC478945	Elect. 2.2μF 25WV NL	2
12-C4,5	EC379157	Mylar 0.033μF (J) 50WV	4
12-C6	EC362068	Mylar 0.0018μF (K) 50WV	2
12-C7	EC556525	FM 22PF (K) 500WV	2
12-C8	EC331828	Elect. 3.3μF 25WV	2
12-C9	EC336104	Elect. 100μF 6.3WV	2
12-C10	EC478945	Elect. 2.2μF 25WV NL	2
12-C11	EC590837	Elect. 47μF 35WV	2

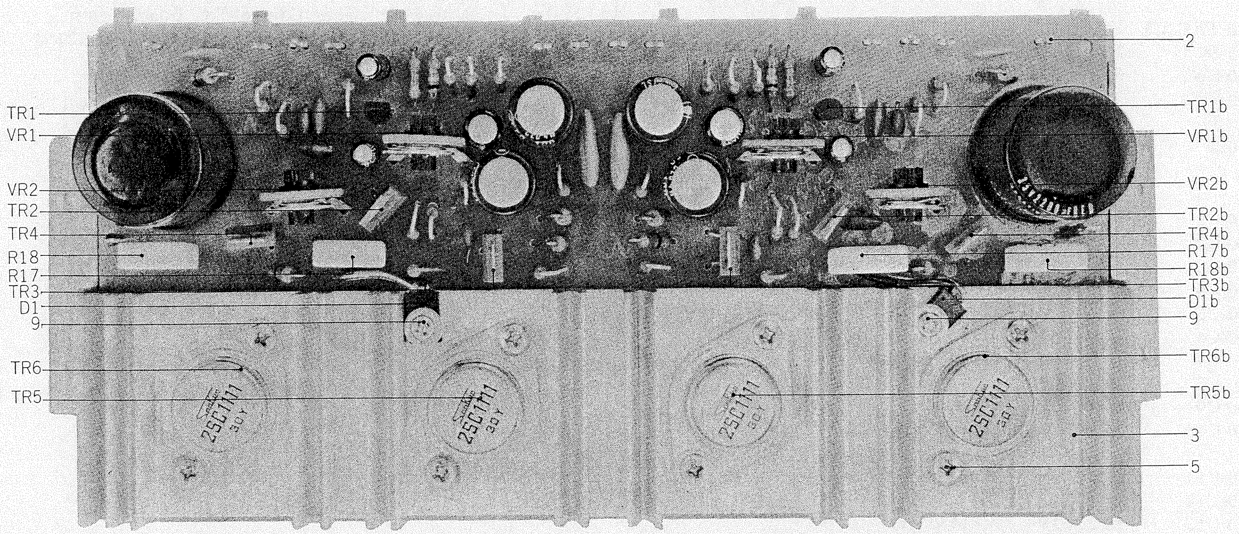
Carbon Resistor Omitted.

VOL. CONTROL P.C. BOARD (A5-5218) BLOCK

Symbol No.	Parts No.	Description	Q'ty
11-1x	BA616814	Vol. Control P.C. Board Comp. (A5-5218)	1
11-TR1	ET539987	Transistor 2SC1312 (F) (G)	2
11-TR2	ET460912	Transistor 2SA640 (L) (M)	2
11-TR3,4	ET539987	Transistor 2SC1312 (F) (G)	2
11-TR5	ET460912	Transistor 2SA640 (L) (M)	1
11-VR1	EV616623	Co-axial 2-throw/Vol. (w/pre set) V24L5DGM 2BM 250k×2	1
11-VR2	EV616634	Vol. (w/switch) VJ11R-SF22 50kA	1
11-VR3	EV616645	Co-axial 2-throw/Vol. V24L5GPHN 1Z 250k×2	1
11-2	EJ539662	Wrapping Post 1×17	8
		Capacitor, Vertical Type	
11-C1	EC459505	Mylar 0.039μF (K) 50WV	2
11-C2	EC290542	VFM 120PF (K) 50WV	2
11-C3	EC556018	VFM 30PF (K) 50WV	2
11-C4	EC556525	FM 22PF (K) 500WV	2
11-C5	EC329771	Elect. 47μF 6.3WV	2
11-C6	EC478945	Elect. 2.2μF 25WV NL	2
11-C7	EC455354	Elect. 100μF 35WV	2
11-C8	EC357827	VFM 50PF (K) 50WV	2
11-C9	EC493323	Elect. 1μF 25WV NL	1
11-C10	EC357827	VFM 50PF (K) 50WV	1
11-C11	EC329771	Elect. 47μF 6.3WV	1
11-C12	EC405044	Elect. 22μF 35WV	1
11-C13	EC313323	Mylar 0.068μF (K) 50WV	1
11-C14	EC250964	Mylar 0.012μF (K) 50WV	1
11-C15	EC329771	Elect. 47μF 6.3WV	1
11-C16	EC290542	VFM 120PF (K) 50WV	1
11-C17	EC557381	Mylar 0.0012μF (K) 50WV	1
11-C18	EC556525	FM 22PF (K) 500WV	1
11-C19	EC455354	Elect. 100μF 35WV	1
11-C20	EC478945	Elect. 2.2μF 25WV NL	1

Carbon Resistor Omitted.

FIG. 13 PHOTO OF MAIN AMP. P.C. BOARD (92-5005) BLOCK



MAIN AMP. P.C. BOARD (92-5005) BLOCK

Symbol No.	Parts No.	Description	Q'ty
13-1x	BA616757	Main Amp. P.C. Board Comp. (92-5005)	1
13-TR1	ET539987	Transistor 2SC1312 (F) (G)	2
13-TR2,3	ET551564	Transistor 2SC1124 (1) (2)	4
13-TR4	ET556020	Transistor 2SA706-3 (1) (2)	2
13-TR5,6	ET556648	Transistor 2SC1111 (O) (Y)	4
13-D1	ED556514	Varistor STV-3H	2
13-VR1	EV383398	Semi-fixed/Vol. V18K3-2 30 kB (4US)	2
13-VR2	EV409858	Semi-fixed/Vol. V18K3-2 100ΩB (4US)	2
13-2	EJ539728	Wrapping Terminal T4434	12
13-3	EZ542755	Heat-sink B	1
13-4	TA610536	Transistor Mt. Plate A	4
13-5	ZS419861	Screw, binding head 3×16	8
13-6	ZW273756	Nut M3	8
13-7	ZW273745	Spring Washer M3	8
13-8	ZW273802	Toothed Lock Washer M3	8
13-9	ZS608332	Screw, pan head 3×8, w/washer	2
13-R17,18	ER622978	Metal Plate/R. MPC71F1 5W 0.47Ω (K)	4
		Capacitor, Vertical Type	
13-C1	EC539943	Elect. 3.3μF 50WV	2
13-C2	EC290531	VFM 100PF (K) 50WV	2
13-C3	EC321221	Elect. 100μF 50WV	2
13-C4	EC539943	Elect. 3.3μF 50WV	2
13-C5	EC321221	Elect. 100μF 50WV	2
13-C6	EC290531	VFM 100PF (K) 50WV	2
13-C7	EC220364	Elect. 100μF 6.3WV	2
13-C8	EC556176	Elect. 2200μF 35WV	2
13-C9	EC487394	VFM 47PF (K) 50WV	2
13-C10	EC384085	Ceramic DB205YZ 0.022μF (Z) 50WV	2
13-C11	EC551160	Ceramic NB821 YZ 0.01μF (Z) 1.4 kWV	2
13-C12	EC357827	VFM 50PF (K) 50WV	2

Carbon Resistor Omitted.

FIG. 14 PHOTO OF SPEAKER SW. P.C. BOARD (A5-5215) BLOCK

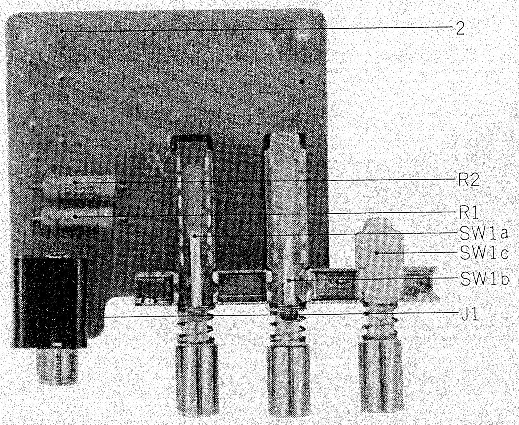
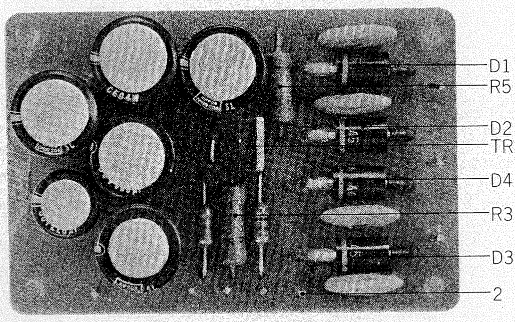


FIG. 15 PHOTO OF POWER SUPPLY P.C. BOARD (A5-5216) BLOCK



SPEAKER SW. P.C. BOARD (A5-5215) BLOCK

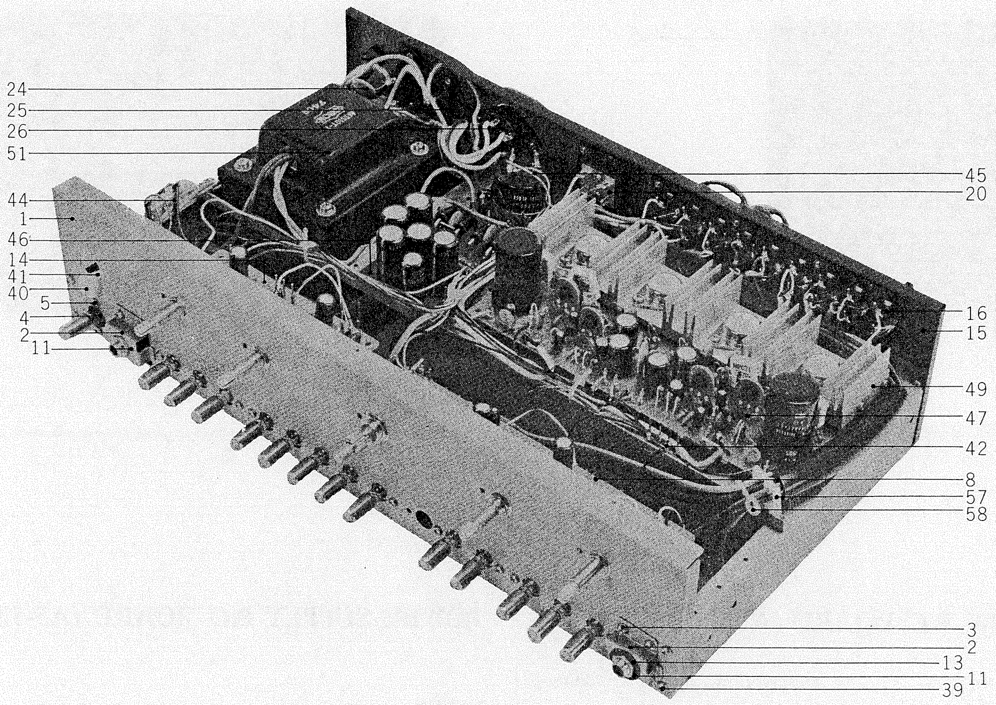
Symbol No.	Parts No.	Description	Q'ty
14-1x	BA616803	Speaker SW. P.C. Board Comp. (A5-5215)	1
14-SW1	ES616612	Push SW. 3F-0006FF2010	1
14-J1	EJ391083	Mic. Jack 3PMJ1P	1
14-2	EJ539662	Wrapping Post 1×17	7
14-R1,2	ER515070	Metal Oxide Film/R. 2W 150Ω (K)	2

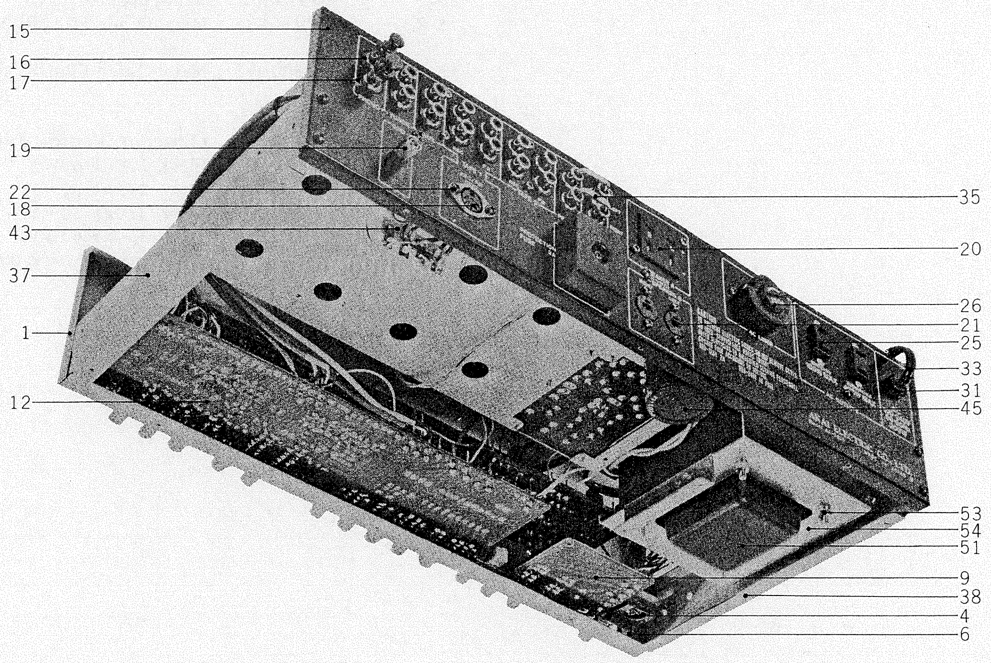
POWER SUPPLY P.C. BOARD (A5-5216) BLOCK

Symbol No.	Parts No.	Description	Q'ty
15-1x	BA616768	Power Supply P.C. Board Comp. (A5-5216)	1
15-TR1	ET556086	Transistor 2SD313 (D) (E)	1
15-D1to4	ED556110	Silicon Diode SR3AM-4	4
15-2	EJ539662	Wrapping Post 1×17	8
15-R3	ER490836	Metal Oxide Film/R. 2W 560Ω (K)	1
15-R5	ER372093	Metal Oxide Film/R. 1W 330Ω (K)	1
		Capacitor, Vertical Type	
15-C1	EC603112	Elect. 330μF 63WV	1
15-C2	EC372148	Elect. 220μF 35WV	1
15-C3	EC403468	Elect. 330μF 50WV	1
15-C4to6	EC603112	Elect. 330μF 63WV	3
15-C7to10	EC551160	Ceramic NB821 YZ 0.01μF (Z) 1.4 kWV	4

Carbon Resistor Omitted.

FIG. 16 PHOTO OF ASSEMBLY BLOCK

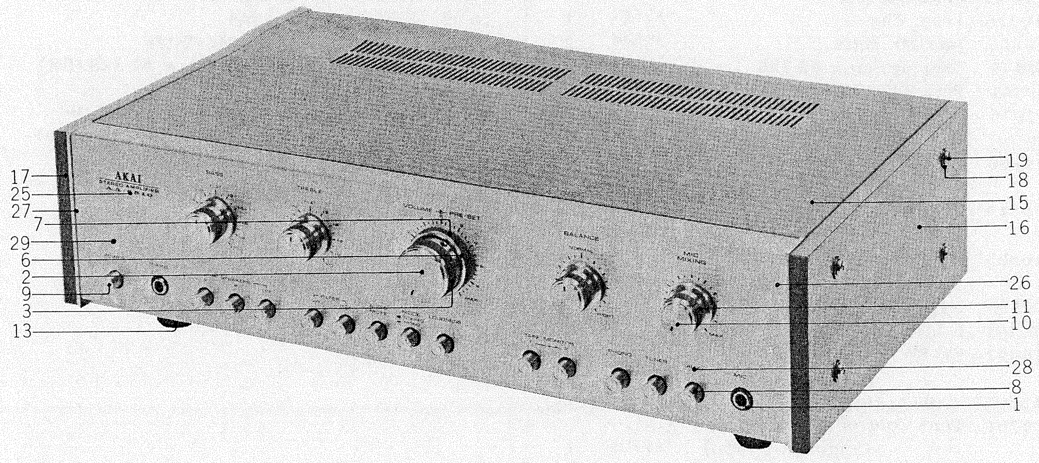

24
25
26
51
44
1
46
14
41
40
5
4
2
11
45
20
16
15
49
47
42
8
57
58
3
2
13
11
39


15
16
17
19
22
18
43
37
1
12
35
20
26
21
25
33
31
45
53
54
51
9
38
4
6

ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
	FRONT CHASSIS BLOCK			
16-1	TA610918	Front Chassis	A5-5204	1
16-2	EZ610806	Jack Mt. Parts	A5-5205	2
16-3	ZS325495	Tapping Screw #2 3×6		4
16-4	ES469541	Push SW. TV-3 JB52	25-5-60	1
16-5	ZS422076	Screw, pan head 3×5		12
16-6	TA609761	SW. Angle	A5-5009	1
16-7x	EC551160	Ceramic/C. NB821 YZ 0.01μF (Z) 1.4 kWV	24-5-55	1
16-8	BA616814	Vol. Control P.C. Board Comp. AA-5510	A5-5218	1
16-9	BA616803	SP. SW. P.C. Board Comp. AA-5510	A5-5215	1
16-10x	EZ225180	Nylon Collar, Jack	LD-520	2
16-11	ZW270191	E Jack Nut		2
16-12	BA616792	EQ SW. P.C. Board Comp. AA-5217	A5-5217	1
16-13	ZW260368	Washer (Fiber)D9.2×18×0.5t		1
16-14	BA616781	Tone Control P.C. Board Comp. (AA-5510)	A5-5219	1
	REAR PANEL BLOCK			
16-15	SP610896	Rear Panel	A5-5206	1
16-16	EJ551340	Wrapping Pin Jack B T-5347 (B) 6P	31-1-102	3
16-17	ZS570385	Tap-Tight Screw, pan head 3×8 (Black)		6
16-18	EJ378990	Jack, 5P Din S-1 8123	31-1-1	1
16-19	EZ486257	Metal Terminal T-10	32-1-27	1
16-20	EJ551316	Speaker Consent P0409	31-1-98	1
16-21	EJ602886	Socket CS-220	31-1-117	2
16-22	ZS421740	Screw, pan head 3×8		6
16-23x	ZW273756	Nut M3		4
16-24	EC551160	Ceramic/C. NB821 YZ 0.01μF (Z) 1.4 kWV	24-5-55	1
16-25	EJ378944	Socket, AC U/L S-1 9122		2
16-26	EJ233370	Socket S-18010 (Volt. Selector)	40-2-3	1
16-27x	ER452777	Carbon/R. RD1/4 160k (J) (Insu. Type)	35-9-5	2
16-28x	ER364994	Carbon/R. RD1/4 39k (J) (Insu. Type)	35-9-5	2
16-29x	EJ539796	2P Fuse Holder	40-1-29	1
16-30x	ZS463353	Tapping Screw #2 3×8 (BR) (Black)		2
16-31	EZ382263	Strain Relief SR-4K-4	2-7-12	1
16-32x	EZ246936	Strain Relief SR-6W-1 (3 core)	2-7-8	1
16-33	EW374894	AC Cord 2.5M (CUL)	26-3-19	1
16-34x	EW315448	Australia Cord (3 core)	26-3-11	1
16-35	EJ554578	Short Plug	42-1-66	2
16-36x	ZW318341	Earth Lug M3 (Special)		1
	ASSEMBLY BLOCK			
16-37	TA605924	Side Plate Metal Parts A (Right)	A5-5002	1
16-38	TA606058	Side Plate Metal Parts B (Left)	A5-5002	1
16-39	ZS325495	Tapping Screw #2 3×6		18
16-40	EL458864	Pilot Lamp (L/T) 8V 80MA (150M/M×2)	28-2-22	1
16-41	TA510502	Lamp Holder	T5-5035	1
16-42	EJ551035	4P Wrapping Terminal T-5251	32-1-36	2
16-43	EJ255025	Lug Plate KP2L1	33-3-4	1
16-44	EJ254957	Lug Plate KP1L	33-3-2	1
16-45	EC616533	Elect./C. 3300μF 63WV (Lug Type)	24-10-97	1
16-46	BA616768	Power Supply P.C. Board Comp. AA-5510	A5-5216	1
16-47	BA616757	Main Amp. P.C. Board Comp. AA-5510	92-5005	1
16-48x	ZS422076	Screw, pan head 3×5		4
16-49	EZ610784	Heat-sink Mt. Plate A(Right)	A5-5203	1
16-50x	EZ610795	Heat-sink Mt. Plate B(Left)	A5-5203	1
16-51	BT616544	Power Trans. AA-5510T-1	38-4-287	1
16-52x	ZW273914	Spring Washer M4		4
16-53	ZW416698	Nut M4		4
16-54	MZ610828	Trans. Mt. Table	A5-5202	1
16-55x	ZS447840	Tapping Screw #2 3×8 (BR)		20
16-56x	TA605878	Lead Protector	A5-5007	2
16-57	EJ510333	Wire Clip 220-JD481610-0104 (Nylon)	2-7-17	1
16-58	MZ229138	Wire Bundle Holder N-108	2-35-1	3

FIG. 17 PHOTO OF FINAL ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
17-1	EZ436217	Collar For Jack	MC-5006	2
17-2	SK609838	Volume Knob	A5-5049	1
17-3	MB609851	Knob Rubber Ring C	A5-5054	1
17-4x	ZS444240	Set Screw, hexagon socket 4x8 (Cup/p.)		1
17-5x	ZW493312	Washer (Nylon) D6.2x10x1t		1
17-6	SK631192	Memory Knob Ring	A5-5048	1
17-7	MB605880	Knob Rubber Ring D	A5-5055	1
17-8	SK531224	Push Button Knob	91-5051	13
17-9	SK627524	Push Button Knob G (Orange)	91-5051	1
17-10	SK627535	Single Knob B-2	A5-5053	4
17-11	MB551092	Single Knob Rubber Ring	3-10-8	4
17-12x	BC610907	Bottom Plate	A5-5210	1
17-13	SA616590	Tran Leg G	2-6-12	4
17-14x	ZW559135	Tapping Screw #2 4x18 pan head		4
17-15	SP606036	Upper Plate	A5-5019	1
17-16	SP605946	Side Plate A (Right)	A5-5020	1
17-17	SP606047	Side Plate B (Left)	A5-5020	1
17-18	ZW616656	Washer (SPC) D4.1x11x1t		8
17-19	ZW552824	ISO Screw, binding head 4x18 (Black)		8
17-20x	EF563681	Fuse 1A 250V	39-1-50	1
17-21x	EF563703	Fuse 2A 250V	39-1-50	1
17-22x	EF277413	Fuse ST-2 2A	39-1-26	2
17-23x	TA539537	2P Fuse Holder Cover	2-34-78	1
17-24x	ZS355522	Screw, pan head 3x6		1
17-25	SP610885	Front Panel	A5-5208	1
17-26	TA609816	Side Fitting (Right)	A5-5017	1
17-27	TA609794	Side Fitting (Left)	A5-5017	1
17-28	TA549505	Push Button Bush	98-5061	14
17-29	SZ457975	Lamp Lens B	55-5012	1
17-30x	EJ552778	Short Pin Plug ASB-2	42-1-65	2
17-31x	EJ550912	Speaker Plug	42-1-64	2
17-32x	EJ602346	Speaker Plug	42-1-75	2
17-33x	EW602357	Pin Plug Cord	42-1-74	4

INDEX

Parts No.	Ref. No. & Symbol No.
BA616757	13-1x
BA616757	16-47
BA616768	15-1x
BA616768	16-46
BA616781	12-1x
BA616781	16-14
BA616792	10-1x
BA616792	16-12
BA616803	14-1x
BA616803	16-9
BA616814	11-1x
BA616814	16-8
BA622822	4-1x
BA622822	8-50
BA622833	4-13
BA622833	4-13
BA622844	7-1x
BA622844	8-47
BA622855	5-1x
BA622855	8-49
BA622877	3-1x
BA622877	8-12
BA622888	2-1x
BA622888	8-11
BA622890	1-1x
BA622890	8-14
BA622901	6-1x
BA622901	8-8
BC610907	9-18x
BC610907	17-12x
BT616544	16-51
BT622135	8-51
EC220127	5-C5
EC220364	13-C7
EC220410	7-C14
EC220768	7-C12
EC220994	10-C1
EC250964	11-C14
EC250975	10-C15
EC251201	2-C1
EC251201	2-C23
EC290531	13-C2
EC290531	13-C6
EC290542	1-C6
EC290542	1-C10
EC290542	1-C17
EC290542	1-C22
EC290542	2-C2
EC290542	2-C15
EC290542	2-C24
EC290542	11-C2
EC290542	11-C16
EC290575	10-C6
EC302264	1-C3
EC302264	1-C15
EC302264	2-C9
EC302264	10-C3
EC302264	10-C9
EC302321	1-C6
EC302321	1-C18
EC311793	10-C5
EC313108	4-C1
EC313323	3-C1
EC313323	11-C13
EC313323	12-C1
EC321221	4-C5
EC321221	7-C6
EC321221	7-C10,11
EC321221	13-C3
EC321221	13-C5
EC329771	1-C2
EC329771	1-C8
EC329771	1-C14
EC329771	1-C20
EC329771	2-C3
EC329771	2-C10
EC329771	2-C16
EC329771	2-C25
EC329771	11-C5
EC329771	11-C11
EC329771	11-C15
EC329782	4-C4
EC329872	1-C24
EC329872	1-C30
EC331828	3-C8
EC331828	10-C8
EC331828	12-C8
EC336104	3-C9
EC336104	12-C9
EC336194	10-C13
EC337533	7-C16
EC338670	2-C8
EC338670	2-C14
EC343236	5-C3,4
EC346735	2-C7
EC346735	2-C19
EC346735	2-C28
EC346735	10-C11
EC350717	4-C3
EC357827	11-C8
EC357827	11-C10
EC357827	13-C12
EC362068	3-C6
EC362068	12-C6
EC368335	10-C12
EC368357	4-C10
EC368357	5-C1,2
EC372148	15-C2
EC379157	3-C4,5
EC379157	10-C14
EC379157	12-C4,5
EC379170	4-C7
EC379225	1-C25,26
EC379776	1-C4
EC379776	1-C16
EC384085	13-C10
EC389024	4-C2
EC389237	1-C23
EC389237	1-C29
EC391004	10-C7
EC403468	15-C3
EC405044	11-C12
EC413684	1-C27,28
EC450527	5-C6
EC455354	1-C11,12
EC455354	11-C7
EC455354	11-C19
EC459505	11-C1
EC460888	10-C4
EC474671	3-C2
EC474671	12-C2
EC478945	1-C1
EC478945	1-C9
EC478945	1-C13
EC478945	1-C21
EC478945	2-C6
EC478945	2-C21,22
EC478945	2-C29
EC478945	3-C3
EC478945	3-C10
EC478945	10-C2
EC478945	11-C6
EC478945	11-C20
EC478945	12-C3
EC478945	12-C10
EC487394	1-C7
EC487394	1-C19
EC487394	4-C6
EC487394	13-C9
EC493323	11-C9
EC496866	10-C10
EC516745	2-C12
EC539842	4-C8,9
EC539842	4-C11
EC539943	13-C1
EC539943	13-C4
EC551160	7-C1to4
EC551160	7-C7,8
EC551160	8-7x
EC551160	8-28x
EC551024	8-46
EC551160	13-C11
EC551160	15-C7to10
EC551160	16-7x
EC551160	16-24
EC556018	11-C3
EC556176	13-C8
EC556525	2-C4,5
EC556525	2-C11
EC556525	2-C17
EC556525	2-C20
EC556525	2-C26,27
EC556525	3-C7
EC556525	11-C4
EC556525	11-C18
EC556525	12-C7
EC557381	11-C17
EC557627	7-C13
EC557627	7-C15
EC590837	3-C11
EC590837	12-C11
EC603112	7-C5
EC603112	7-C9
EC603112	15-C1
EC603112	15-C4to6
EC616533	16-45
EC622991	2-C13
EC623002	2-C18
ED224526	5-D8
ED224548	5-D1to7
ED511918	7-D11
ED539976	4-D1,2
ED539976	7-D10
ED551711	6-L1,2
ED551733	4-7
ED556110	15-D1to4
ED556514	13-D1
ED558033	7-D5to8
ED570295	7-D1to4
ED570295	7-D9
EF277413	17-22x
EF563657	9-28x
EF563681	17-20x
EF563692	9-29x
EF563703	17-21x
EJ233370	8-29
EJ233370	16-26
EJ254957	8-45
EJ254957	16-44
EJ255025	16-43
EJ378944	8-27
EJ378944	16-25
EJ378990	16-18
EJ391083	6-J1
EJ391083	14-J1
EJ391094	1-J1
EJ391094	10-J1
EJ510333	8-60
EJ510333	16-57
EJ514034	8-48
EJ539662	1-2
EJ539662	2-2
EJ539662	3-2
EJ539662	4-15
EJ539662	5-2
EJ539662	6-2
EJ539662	7-4
EJ539662	10-2
EJ539662	11-2
EJ539662	12-2
EJ539662	14-2
EJ539662	15-2
EJ539728	13-2
EJ539796	16-29x
EJ550912	9-31x
EJ550912	17-31x
EJ551035	8-44
EJ551035	16-42
EJ551316	8-26
EJ551316	16-20
EJ551340	8-18
EJ551340	16-16
EJ551654	4-14
EJ552778	9-30x
EJ552778	17-30x
EJ554578	16-35
EJ557875	8-17
EJ589533	8-20
EJ602346	9-32x
EJ602346	17-32x
EJ602886	8-31
EJ602886	16-21
EJ603731	8-24
EJ624468	4-4
EL443520	8-42
EL458864	16-40
EP325585	6-RL1
ER364994	8-23x
ER364994	16-28x
ER372093	15-R5
ER429715	5-R28
ER442653	4-R17,18
ER452777	8-22x
ER452777	16-27x
ER490836	15-R3
ER515070	14-R1,2
ER622978	13-R17,18
ER624745	6-R1,2
ER624756	6-R3,4
ES469541	8-4
ES469541	16-4
ES551272	10-SW3
ES616612	6-SW1
ES616612	14-SW1
ES623968	1-SW1
ES623968	10-SW1
ES624148	1-SW2
ES628672	1-SW3
ES628672	10-SW2
ET393568	7-TR1
ET398711	5-TR3,4
ET398711	5-TR6
ET398711	7-TR2
ET460912	1-TR1
ET460912	1-TR4
ET460912	2-TR2
ET460912	2-TR4
ET460912	2-TR6
ET460912	2-TR10
ET460912	11-TR2
ET460912	11-TR5
ET517263	3-TR1,2
ET539987	11-TR1
ET539987	11-TR3,4
ET539987	12-TR1,2
ET539987	13-TR1
ET551564	13-TR2,3
ET552690	5-TR1,2
ET552701	5-TR5
ET556020	13-TR4
ET556086	15-TR1
ET556648	13-TR5,6
ET561802	4-TR1,2
ET565852	5-TR7
ET602460	10-TR1,2,3
ET604124	1-TR2,3
ET604124	1-TR5,6
ET622181	2-TR1
ET622181	2-TR3
ET622181	2-TR5
ET622181	2-TR7to9
ET623013	4-5
ET623024	4-6
ET623035	4-TR3,4
ET623046	4-TR5
ET623057	4-TR6
EV361798	4-VR2
EV383398	13-VR1
EV409858	13-VR2
EV551643	4-VR1
EV602458	3-VR1,2
EV602458	12-VR1,2
EV616623	2-VR1
EV616623	11-VR1
EV616634	2-VR3
EV616634	11-VR2
EV616645	2-VR2
EV616645	11-VR3
EW315448	8-34x
EW315448	16-34x
EW374894	8-33x
EW374894	16-33
EW524845	8-32
EW602357	9-33x
EW602357	17-33x
EZ225180	8-9x
EZ225180	16-10x
EZ246936	8-36x
EZ246936	16-32x
EZ382263	8-35
EZ382263	16-31
EZ436217	8-62
EZ436217	9-4
EZ436217	17-1
EZ486257	16-19
EZ532203	7-2
EZ542755	13-3
EZ610784	16-49
EZ610795	16-50x
EZ610806	8-2
EZ610806	16-2
EZ626117	8-59
EZ626128	8-13
EZ626141	4-3
EZ626152	4-2
EZ626220	4-9
EZ626354	4-10
MB551092	9-17
MB551092	17-11
MB605880	17-7
MB609851	9-9
MB609851	17-3
MZ229138	8-61
MZ229138	16-58
MZ610828	16-54
SA616590	9-19
SA616590	17-13
SK531224	9-14
SK531224	17-8
SK605880	9-13
SK609838	9-8
SK609838	17-2
SK627524	9-15
SK627524	17-9
SK627535	9-16
SK627535	17-10
SK631192	9-12
SK631192	17-6
SP605946	9-24
SP605946	17-16
SP606036	9-22
SP606036	17-15
SP606047	9-25
SP606047	17-17
SP610885	17-25
SP610896	16-15
SP626174	8-16
SP626196	9-1
SZ457975	9-6
SZ457975	17-29
TA510502	8-43
TA510502	16-41
TA539537	17-23x
TA545905	9-5
TA545905	17-28
TA605878	8-56x
TA605878	16-56x
TA605924	8-39
TA605924	16-37
TA606058	8-40

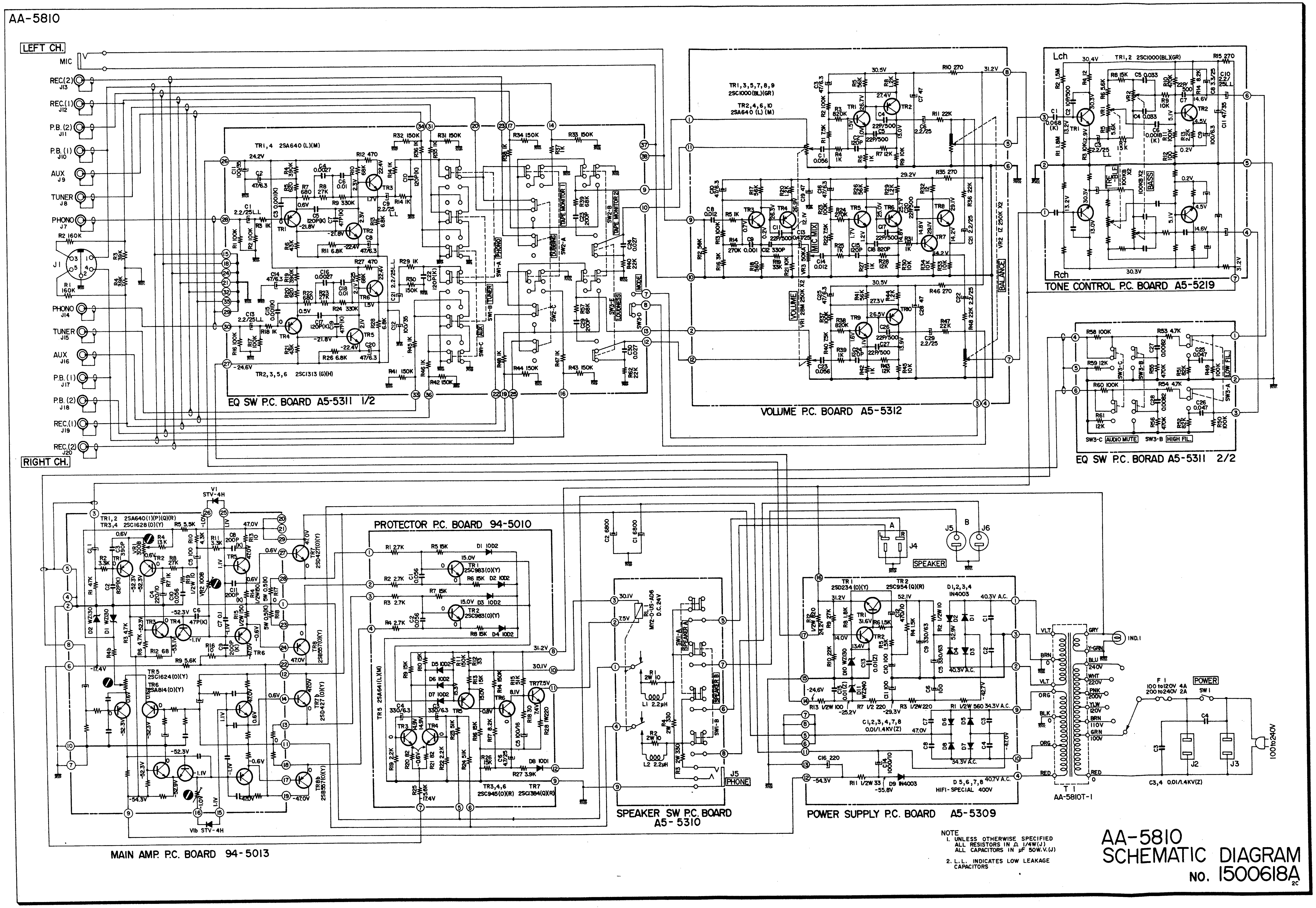
INDEX

Parts No.	Ref. No. & Symbol No.
TA606058	16-38
TA609761	8-6
TA609761	16-6
TA609794	9-3
TA609794	17-27
TA609816	9-2
TA609816	17-26
TA610536	13-4
TA610918	8-1
TA610918	16-1
TA626130	8-58
TA626163	8-57
TA626218	8-55
ZS325495	4-12
ZS325495	8-3
ZS325495	8-41
ZS325495	16-3
ZS325495	16-39
ZS355522	17-24x
ZS379350	4-11x
ZS419861	13-5
ZS421740	8-30
ZS421740	16-22
ZS422076	8-5
ZS422076	16-5
ZS422076	16-48x
ZS444240	9-10x
ZS444240	17-4x
ZS447761	8-21
ZS447761	9-23x
ZS447840	9-7x
ZS447840	16-55x
ZS447840	9-20x
ZS463353	16-30x
ZS522922	7-3
ZS570385	8-19
ZS570385	16-17
ZS608332	13-9
ZS609535	4-8x
ZW260368	8-15
ZW260368	16-13
ZW270191	8-10
ZW270191	16-11
ZW273745	13-7
ZW273756	8-38x
ZW273756	13-6
ZW273756	16-23x
ZW273802	8-25x
ZW273802	13-8
ZW273914	8-53x
ZW273914	16-52x
ZW318341	16-36x
ZW416698	8-54
ZW416698	16-53
ZW493312	9-11x
ZW493312	17-5x
ZW552824	9-27
ZW552824	17-19
ZW562487	8-37x
ZW559135	9-21x
ZW559135	17-14x
ZW602381	9-26
ZW616656	17-18
ZW622146	8-52

SECTION 4

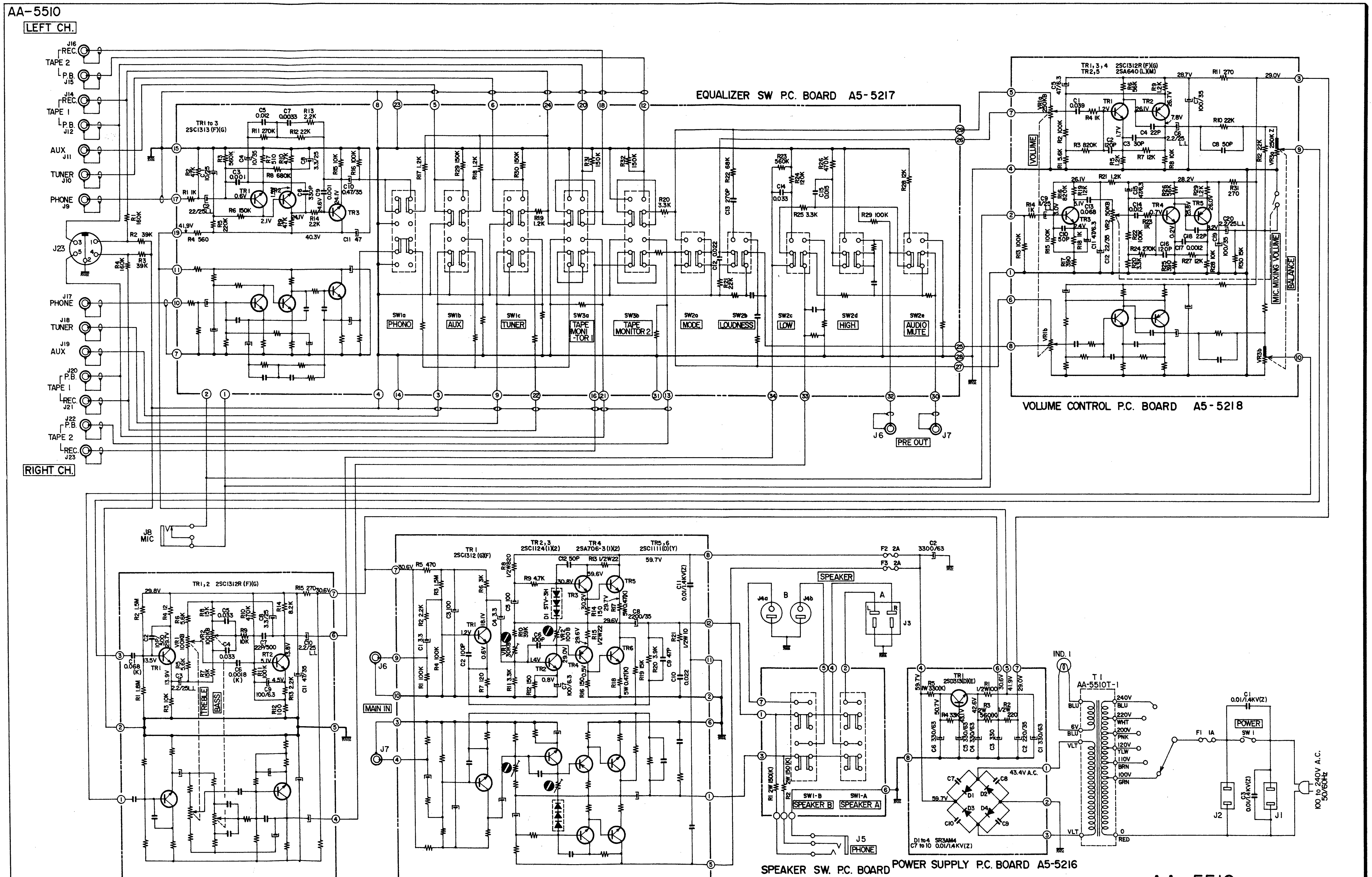
SCHEMATIC DIAGRAM

1. AA-5810 SCHEMATIC DIAGRAM
2. AA-5510 SCHEMATIC DIAGRAM


AA-5810
LEFT CH.
MIC
REC.(2) J13
REC.(1) J12
P.B.(2) J11
P.B.(1) J10
AUX J9
TUNER J8
PHONO J7
J1
PHONO J14
TUNER J15
AUX J16
P.B.(1) J17
P.B.(2) J18
REC.(1) J19
REC.(2) J20
RIGHT CH.
TR1,4 2SA640 (L)(M)
TR2,3,5,6 2SC1313 (G)(H)
TAPE MONITOR 1
TAPE MONITOR 2
DUBBING
PHONO
TUNER
AUX
MODE
LOUDNESS
EQ SW P.C. BOARD A5-5311 1/2
TR1,3,5,7,8,9 2SC1000(BL)(GR)
TR2,4,6,10 2SA640 (L)(M)
MIC MIX
VOLUME
BALANCE
VOLUME P.C. BOARD A5-5312
Lch
TR1,2 2SC1000(BL)(GR)
TREBLE
BASS
Rch
TONE CONTROL P.C. BOARD A5-5219
SW3-C AUDIO MUTE
SW3-B HIGH FIL.
LOW FIL.
EQ SW P.C. BORAD A5-5311 2/2
V1 STV-4H
TR1,2 2SA640(1)(P)(Q)(R)
TR3,4 2SC1628(0)(Y)
TR5 2SC1624(0)(Y)
TR6 2SA814(0)(Y)
TR7 2SD427(0)(Y)
TR8 2SB557(0)(Y)
V1b STV-4H
MAIN AMP. P.C. BOARD 94-5013
PROTECTOR P.C. BOARD 94-5010
TR1 2SC983(0)(Y)
TR2 2SC983(0)(Y)
TR5 2SA641(L)(M)
TR3,4,6 2SC945(Q)(R)
TR7 2SC1384(Q)(R)
RL1 MY2-0-US-AD6 D.C.24V
SPEAKER A
SPEAKER B
J4
SPEAKER
J5
J6
PHONE
SPEAKER SW P.C. BOARD A5-5310
TR1 2SD234(0)(Y)
TR2 2SC954(Q)(R)
D1,2,3,4 IN4003
C1,2,3,4,7,8 0.01/1.4KV(Z)
D5,6,7,8 HIFI-SPECIAL 400V
POWER SUPPLY P.C. BOARD A5-5309
IND.1
GRY
Y-GRN
BLU
WHT
PNK
YLW
BRN
GRN
RED
240V
220V
200V
120V
110V
100V
F1 100 to 120V 4A 200 to 240V 2A
POWER
SW1
C3,4 0.01/1.4KV(Z)
J2
J3
100 to 240V
T1
AA-5810T-1

NOTE
1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS IN Ω 1/4W(J) ALL CAPACITORS IN μF 50W.V.(J)
2. L.L. INDICATES LOW LEAKAGE CAPACITORS

AA-5810
SCHEMATIC DIAGRAM
No. 1500618A


AA-5510
LEFT CH.
RIGHT CH.
TAPE 2
TAPE 1
AUX
TUNER
PHONE
J23
J8 MIC
REC.
P.B.
EQUALIZER SW P.C. BOARD A5-5217
TR1 to 3 2SC1313(F)(G)
SW1a PHONO
SW1b AUX
SW1c TUNER
SW3a TAPE MONI-TOR 1
SW3b TAPE MONITOR 2
SW2a MODE
SW2b LOUDNESS
SW2c LOW
SW2d HIGH
SW2e AUDIO MUTE
J6
J7
PRE OUT
VOLUME CONTROL P.C. BOARD A5-5218
TR1, 3, 4 2SC1312R (F)(G)
TR2, 5 2SA640 (L)(M)
VOLUME
MIC MIXING VOLUME
BALANCE
TONE CONTROL P.C. BOARD A5-5219
TR1, 2 2SC1312R (F)(G)
TREBLE
BASS
MAIN AMP. P.C. BOARD 92-5005 (5ED)
TR1 2SC1312 (G)(F)
TR2, 3 2SC1124 (1)(2)
TR4 2SA706-3 (1)(2)
TR5, 6 2SC1111 (O)(Y)
MAIN IN
SPEAKER
SPEAKER SW. P.C. BOARD A5-5215
SW1-B SPEAKER B
SW1-A SPEAKER A
J5 PHONE
POWER SUPPLY P.C. BOARD A5-5216
TR1 2SD313(D)(E)
D1 to 4 SR3AM4
C7 to 10 0.01/1.4KV(Z)
43.4V A.C.
T1 AA-5510T-1
IND. 1
240V
220V
200V
120V
110V
100V
BLU
WHT
PNK
YLW
BRN
GRN
VLT
RED
F1 1A
POWER SW 1
C1 0.01/1.4KV(Z)
C3 0.01/1.4KV(Z)
J1
J2
100 to 240V A.C. 50/60Hz
F2 2A
F3 2A
C2 3300/63

NOTE
1. UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/4W(J)
ALL CAPACITORS IN μF 50W.V.(J)
2. L.L. INDICATES LOW LEAKAGE CAPACITORS

AA-5510
SCHEMATIC DIAGRAM
No. 1500620A

2C